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### **PCT**

## WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5:

(11) International Publication Number:

WO 92/06176

C12N 1/24, 15/00, C07H 21/00

A1

(43) International Publication Date:

16 April 1992 (15.04.92)

(21) International Application Number:

PCT/US9:/07141

(22) International Filing Date:

27 September 1991 (27.09.91)

(30) Priority data: 590,664

28 September 1990 (28.09.90) US

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(81) Designated States: AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CA, CF (OAPI patent), CG (OAPI patent), CH (European patent), CI (OAPI patent), CM (OAPI patent), CS, DE (European patent), DK (European patent), ES (European patent), FI, FR (European patent), GA (OAPI patent), GB (European patent), GN (OAPI patent), GR (European patent), HU, IT (European patent), JP, KP, KR, LK, LU (European patent), MC, MG, ML (OAPI patent), MN, MR (OAPI patent), MW, NL (European patent), NO, PL, RO, SD, SE (European patent), SN (OAPI patent), SU+,TD (OAPI patent), TG (OAPI patent).

Published

With international search report.

(54) Title: SURFACE EXPRESSION LIBRARIES OF RANDOMIZED PEPTIDES

#### (57) Abstract

A composition of matter comprising a plurality of procaryotic cells containing a diverse population of expressible oligonucleotides operationally linked to expression elements, said expressible oligonucleotides having a desirable bias of random codon sequences.

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# SURFACE EXPRESSION LIBRARIES OF RANDOMIZED PEPTIDES

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## BACKGROUND OF THE INVENTION

This invention relates generally to methods for synthesizing and expressing oligonucleotides and, more particularly, to methods for expressing oligonucleotides having random codon sequences.

Oligonucleotide synthesis proceeds via linear coupling 10 of individual monomers in a stepwise reaction. reactions are generally performed on a solid phase support by first coupling the 3' end of the first monomer to the support. The second monomer is added to the 5' end of the 15 first monomer in a condensation reaction to yield a dinucleotide coupled to the solid support. At the end of each coupling reaction, the by-products and unreacted, free monomers are washed away so that the starting material for the next round of synthesis is the pure oligonucleotide In this reaction scheme, the 20 attached to the support. stepwise addition of individual monomers to a single, growing end of a oligonucleotide ensures accurate synthesis of the desired sequence. Moreover, unwanted side reactions condensation are eliminated, such as the 25 oligonucleotides, resulting in high product yields.

In some instances, it is desired that synthetic oligonucleotides have random nucleotide sequences. This result can be accomplished by adding equal proportions of all four nucleotides in the monomer coupling reactions, leading to the random incorporation of all nucleotides and yielding a population of oligonucleotides with random sequences. Since all possible combinations of nucleotide sequences are represented within the population, all possible codon triplets will also be represented. If the

objective is ultimately to generate random peptide products, this approach has a severe limitation because the random codons synthesized will bias the amino acids incorporated during translation of the DNA by the cell into polypeptides.

The bias is due to the redundancy of the genetic code.

There are four nucleotide monomers which leads to sixtyfour possible triplet codons. With only twenty amino acids
to specify, many of the amino acids are encoded by multiple
codons. Therefore, a population of oligonucleotides
synthesized by sequential addition of monomers from a
random population will not encode peptides whose amino acid
sequence represents all possible combinations of the twenty
different amino acids in equal proportions. That is, the
frequency of amino acids incorporated into polypeptides
will be biased toward those amino acids which are specified
by multiple codons.

To alleviate amino acid bias due to the redundancy of the genetic code, the oligonucleotides can be synthesized from nucleotide triplets. Here, a triplet coding for each of the twenty amino acids is synthesized from individual monomers. Once synthesized, the triplets are used in the coupling reactions instead of individual monomers. By mixing equal proportions of the triplets, synthesis of oligonucleotides with random codons can be accomplished. However, the cost of synthesis from such triplets far exceeds that of synthesis from individual monomers because triplets are not commercially available.

Amino acid bias can be reduced, however, by synthesizing the degenerate codon sequence NNK where N is a mixture of all four nucleotides and K is a mixture guanine and thymine nucleotides. Each position within an oligonucleotide having this codon sequence will contain a total of 32 codons (12 encoding amino acids being

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represented once, 5 represented twice, 3 represented three times and one codon being a stop codon). Oligonucleotides expressed with such degenerate codon sequences will produce peptide products whose sequences are biased toward those amino acids being represented more than once. Thus, populations of peptides whose sequences are completely random cannot be obtained from oligonucleotides synthesized from degenerate sequences.

There thus exists a need for a method to express oligonucleotides having a fully random or desirably biased sequence which alleviates genetic redundancy. The present invention satisfies these needs and provides additional advantages as well.

### SUMMARY OF THE INVENTION

The invention provides a plurality of procaryotic cells containing a diverse population of expressible oligonucleotides operationally linked to expression elements, the expressible oligonucleotides having a desirable bias of random codon sequences.

### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a schematic drawing for synthesizing oligonucleotides from nucleotide monomers with random tuplets at each position using twenty reaction vessels.

Figure 2 is a schematic drawing for synthesizing oligonucleotides from nucleotide monomers with random tuplets at each position using ten reaction vessels.

Figure 3 is a schematic diagram of the two vectors used for sublibrary and library production from precursor oligonucleotide portions. M13IX22 (Figure 3A) is the vector used to clone the anti-sense precursor portions

(hatched box). The single-headed arrow represents the Lac p/o expression sequences and the double-headed arrow represents the portion of M13IX22 which is to be combined The amber stop codon for biological with M13IX42. 5 selection and relevant restriction sites are also shown. M13IX42 (Figure 3B) is the vector used to clone the sense precursor portions (open box). Thick lines represent the pseudo-wild type ( $\Psi$  gVIII) and wild type (gVIII) gene VIII sequences. The double-headed arrow represents the portion 10 of M13IX42 which is to be combined with M13IX22. amber stop codons and relevant restriction sites are also shown. Figure 3C shows the joining of vector population from sublibraries to form the functional surface expression vector M13IX. Figure 3D shows the generation of a surface 15 expression library in a non-suppressor strain and the production of phage. The phage are used to infect a suppressor strain (Figure 3E) for surface expression and screening of the library.

Figure 4 is a schematic diagram of the vector used for generation of surface expression libraries from random oligonucleotide populations (M13IX30). The symbols are as described for Figure 3.

Figure 5 is the nucleotide sequence of M13IX42 (SEQ ID NO: 1).

Figure 6 is the nucleotide sequence of M13IX22 (SEQ ID NO: 2).

Figure 7 is the nucleotide sequence of M13IX30 (SEQ ID NO: 3).

Figure 8 is the nucleotide sequence of M13ED03 (SEQ ID 30 NO: 4).

Figure 9 is the nucleotide sequence of M13IX421 (SEQ

ID NO: 5).

Figure 10 is the nucleotide sequence of M13ED04 (SEQ ID NO: 6).

## DETAILED DESCRIPTION OF THE INVENTION

This invention is directed to a simple and inexpensive 5 method for synthesizing and expressing oligonucleotides having a desirable bias of random codons using individual The method is advantageous in that individual monomers are used instead of triplets and by synthesizing 10 only a non-degenerate subset of all triplets, codon redundancy is alleviated. Thus, the oligonucleotides synthesized represent a large proportion of possible random obtained. can be which sequences triplet oligonucleotides can be expressed, for example, on the 15 surface of filamentous bacteriophage in a form which does not alter phage viability or impose biological selections against certain peptide sequences. The oligonucleotides produced are therefore useful for generating an unlimited number of pharmacological and research products.

entails the invention embodiment, the one 20 sequential coupling of monomers to produce oligonucleotides The coupling with a desirable bias of random codons. reactions for the randomization of twenty codons which specify the amino acids of the genetic code are performed Each reaction vessel in ten different reaction vessels. contains a support on which the monomers for two different codons are coupled in three sequential reactions. One of the reactions couples an equal mixture of two monomers such that the final product has two different codon sequences. The codons are randomized by removing the supports from the 30 reaction vessels and mixing them to produce a single batch of supports containing all twenty codons at a particular position. Synthesis at the next codon position proceeds by equally dividing the mixed batch of supports into ten reaction vessels as before and sequentially coupling the monomers for each pair of codons. The support: are again mixed to randomize the codons at the position just synthesized. The cycle of coupling, mixing and dividing continues until the desired number of codon positions have been randomized. After the last position has been randomized, the oligonucleotides with random codons are cleaved from the support. The random oligonucleotides can then be expressed, for example, on the surface of filamentous bacteriophage as gene VIII-peptide fusion proteins. Alternative genes can be used as well.

In its broadest form, the invention provides a diverse population of synthetic oligonucleotides contained in vectors so as to be expressible in cells. Such populations of diverse oligonucleotides can be fully random at one or more codon sites or can be fully defined at one or more site, so long as at least one site the codons are randomly variable. The populations of oligonucleotides can be expressed as fusion products in combination with surface proteins of filamentous bacteriophage, such as M13, as with gene VIII. The vectors can be transfected into a plurality of cells, such as the procaryote E. coli.

The diverse population of oligonucleotides can be formed by randomly combining first and second precursor populations, each precursor population having a desirable bias of random codon sequences. Methods of synthesizing and expressing the diverse population of expressible oligonucleotides are also provided.

In a preferred embodiment, two populations of random oligonucleotides are synthesized. The oligonucleotides within each population encode a portion of the final oligonucleotide which is to be expressed. Oligonucleotides within one population encode the carboxy terminal portion

of the expressed oligonucleotides. These oligonucleotides are cloned in frame with a gene VIII (gVIII) sequence so . that translation of the sequence produces peptide fusion proteins. The second population of oligonucleotides are 5 cloned into a separate vector. Fach oligonucleotide within this population encodes the anti-sense of the amino terminal portion of the expressed oligonucleotides. vector also contains the elements necessary for expression. The two vectors containing the random oligonucleotides are 10 combined such that the two precursor oligonucleotide portions are joined together at random to form a population larger oligonucleotides derived from two smaller portions. The vectors contain selectable markers to ensure joining together maximum efficiency in 15 oligonucleotide populations. A mechanism also exists to control the expression of gVIII-peptide fusion proteins during library construction and screening.

As used herein, the term "monomer" or "nucleotide monomer" refers to individual nucleotides used in the 20 chemical synthesis of oligonucleotides. Monomers that can be used include both the ribo- and deoxyribo- forms of each of the five standard nucleotides (derived from the bases adenine (A or dA, respectively), guanine (G or dG), cytosine (C or dC), thymine (T) and uracil 25 Derivatives and precursors of bases such as inosine which are capable of supporting polypeptide biosynthesis are also Also included are chemically included as monomers. modified nucleotides, for example, one having a reversible blocking agent attached to any of the positions on the 30 purine or pyrimidine bases, the ribose or deoxyribose sugar or the phosphate or hydroxyl moieties of the monomer. Such blocking groups include, for example, dimethoxytrityl, benzoyl, isobutyryl, beta-cyanoethyl and diisopropylamine groups, and are used to protect hydroxyls, exocyclic amines 35 and phosphate moieties. Other blocking agents can also be used and are known to one skilled in the art.

As used herein, the term "tuplet" refers to a group of elements of a definable size. The elements of a tuplet as used herein are nucleotide monomers. For example, a tuplet can be a dinucleotide, a trinucleotide or can also be four or more nucleotides.

As used herein, the term "codon" or "triplet" refers to a tuplet consisting of three adjacent nucleotide monomers which specify one of the twenty naturally occurring amino acids found in polypeptide biosynthesis. The term also includes nonsense, or stop, codons which do not specify any amino acid.

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"Random codons" or "randomized codons," as used herein, refers to more than one codon at a position within a collection of oligonucleotides. The number of different 15 codons can be from two to twenty at any particular position. "Randomized oligonucleotides," as used herein, refers to a collection of oligonucleotides with random codons at one or more positions. "Random codon sequences" as used herein means that more than one codon position 20 within a randomized oligonucleotide contains random codons. For example, if randomized oligonucleotides are six nucleotides in length (i.e., two codons) and both the first and second codon positions are randomized to encode all twenty amino acids, then a population of oligonucleotides random codon sequences with every possible combination of the twenty triplets in the first and second position makes up the above population of randomized possible number of oligonucleotides. The randomized if Likewise, 202. is combinations 30 oligonucleotides of fifteen nucleotides in length are synthesized which have random codon sequences at all positions encoding all twenty amino acids, then all triplets coding for each of the twenty amino acids will be found in equal proportions at every position. 35 population constituting the randomized oligonucleotides WO 92/06176 PCT/US91/07141

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will contain 20<sup>15</sup> different possible species of oligonucleotides. "Random tuplets," or "randomized tuplets" are defined analogously.

As used herein, the term "bias" refers to a preference. It is understood that there can be degrees of preference or bias toward codon sequences which encode particular amino acids. For example, an oligonucleotide whose codon sequences do not preferably encode particular amino acids is unbiased and therefore completely random.

The oligonucleotide codon sequences can also be biased toward predetermined codon sequences or codon frequencies and while still diverse and random, will exhibit codon sequences biased toward a defined, or preferred, sequence.

"A desirable bias of random codon sequences" as used herein, refers to the predetermined degree of bias which can be selected from totally random to essentially, but not totally, defined (or preferred). There must be at least one codon position which is variable, however.

As used herein, the term "support" refers to a solid phase material for attaching monomers for chemical synthesis. Such support is usually composed of materials such as beads of control pore glass but can be other materials known to one skilled in the art. The term is also meant to include one or more monomers coupled to the support for additional oligonucleotide synthesis reactions.

As used herein, the terms "coupling" or "condensing" refers to the chemical reactions for attaching one monomer to a second monomer or to a solid support. Such reactions are known to one skilled in the art and are typically performed on an automated DNA synthesizer such as a MilliGen/Biosearch Cyclone Plus Synthesizer using procedures recommended by the manufacturer. "Sequentially coupling" as used herein, refers to the stepwise addition of monomers.

A method of synthesizing oligonucleotides having random tuplets using individual monomers is described. The method consists of several steps, the first being synthesis of a nucleotide tuplet for each tuplet to be randomized.

5 As described here and below, a nucleotide triplet (i.e., a codon) will be used as a specific example of a tuplet. Any size tuplet will work using the methods disclosed herein, and one skilled in the art would know how to use the methods to randomize tuplets of any size.

If the randomization of codons specifying all twenty 10 amino acids is desired at a position, then twenty different codons are synthesized. Likewise, if randomization of only ten codons at a particular position is desired then those ten codons are synthesized. Randomization of codons from 15 two to sixty-four can be accomplished by synthesizing each desired triplet. Preferably, randomization of from two to twenty codons is used for any one position because of the redundancy of the genetic code. The codons selected at one position do not have to be the same codons selected at the Additionally, the sense or anti-sense 20 next position. sequence oligonucleotide can be synthesized. The process therefore provides for randomization of any desired codon position with any number of codons.

25 by coupling the first monomer of each codon to separate supports. The supports for the synthesis of each codon can, for example, be contained in different reaction vessels such that one reaction vessel corresponds to the monomer coupling reactions for one codon. As will be used here and below, if twenty codons are to be randomized, then twenty reaction vessels can be used in independent coupling reactions for the first twenty monomers of each codon. Synthesis proceeds by sequentially coupling the second monomer of each codon to the first monomer to produce a dimer, followed by coupling the third monomer for each

codon to each of the above-synthesized dimers to produce a trimer (Figure 1, step 1, where  $M_1$ ,  $M_2$  and  $M_3$  represent the first, second and third monomer, respectively, for each codon to be randomized).

Following synthesis of the first codons from individual monomers, the randomization is achieved by mixing the supports from all twenty reaction vessels which contain the individual codons to be randomized. The solid phase support can be removed from its vessel and mixed to achieve a random distribution of all codon species within the population (Figure 1, step 2). The mixed population of supports, constituting all codon species, are then redistributed into twenty independent reaction vessels (Figure 1, step 3). The resultant vessels are all identical and contain equal portions of all twenty codons coupled to a solid phase support.

For randomization of the second position codon, synthesis of twenty additional codons is performed in each of the twenty reaction vessels produced in step 3 as the 20 condensing substrates of step 1 (Figure 1, step 4). Steps 1 and 4 are therefore equivalent except that step 4 uses the supports produced by the previous synthesis cycle (steps 1 through 3) for codon synthesis whereas step 1 is initial synthesis of the first codon in the The supports resulting from step 4 will 25 oligonucleotide. codons attached to them each have two hexanucleotide) with the codon at the first position being any one of twenty possible codons (i.e., random) and the codon at the second position being one of the twenty 30 possible codons.

For randomization of the codon at the second position and synthesis of the third position codon, steps 2 through 4 are again repeated. This process yields in each vessel a three codon oligonucleotide (i.e., 9 nucleotides) with

codon positions 1 and 2 randomized and position three containing one of the twenty possible codons. Steps 2 through 4 are repeated to randomize the third position codon and synthesize the codon at the next position. The process is continued until an oligonucleotide of the desired length is achieved. After the final randomization step, the oligonucleotide can be cleaved from the supports and isolated by methods known to one skilled in the art. Alternatively, the oligonucleotides can remain on the supports for use in methods employing probe hybridization.

The diversity of codon sequences, i.e., the number of different possible oligonucleotides, which can be obtained using the methods of the present invention, is extremely large and only limited by the physical characteristics of available materials. For example, a support composed of beads of about 100  $\mu \mathrm{m}$  in diameter will be limited to about 10,000 beads/reaction vessel using a 1  $\mu M$  reaction vessel containing 25 mg of beads. This size bead can support about 1 x 107 oligonucleotides per bead. Synthesis using separate reaction vessels for each of the twenty amino acids will produce beads in which all the oligonucleotides attached to an individual bead are identical. diversity which can be obtained under these conditions is approximately 107 copies of 10,000 x 20 or 200,000 different random oligonucleotides. The diversity can be increased, however, in several ways without departing from the basic methods disclosed herein. For example, the number of possible sequences can be increased by decreasing the size of the individual beads which make up the support. A bead 30 of about 30  $\mu m$  in diameter will increase the number of beads per reaction vessel and therefore the number of oligonucleotides synthesized. Another way to increase the diversity of oligonucleotides with random codons is to increase the volume of the reaction vessel. For example, 35 using the same size bead, a larger volume can contain a greater number of beads than a smaller vessel and therefore

greater number of a synthesis the support oligonucleotides. Increasing the number of codons coupled . to a support in a single reaction vessel also increases the diversity of the random oligonucleotides. 5 diversity will be the number of codons coupled per vessel raised to the number of codon positions synthesized. For example, using ten reaction vessels, each synthesizing two codons to randomize a total of twenty codons, the number of different oligonucleotides of ten codons in length per 100 10  $\mu m$  bead can be increased where each bead will contain about  $2^{10}$  or 1 x  $10^3$  different sequences instead of one. skilled in the art will know how to modify such parameters to increase the diversity of oligonucleotides with random codons.

A method of synthesizing oligonucleotides having 15 random codons at each position using individual monomers wherein the number of reaction vessels is less than the number of codons to be randomized is also described. example, if twenty codons are to be randomized at each 20 position within an oligonucleotide population, then ten reaction vessels can be used. The use of a smaller number of reaction vessels than the number of codons to be randomized at each position is preferred because the smaller number of reaction vessels is easier to manipulate possible greater number а in results 25 and oligonucleotides synthesized.

The use of a smaller number of reaction vessels for random synthesis of twenty codons at a desired position within an oligonucleotide is similar to that described above using twenty reaction vessels except that each reaction vessel can contain the synthesis products of more than one codon. For example, step one synthesis using ten reaction vessels proceeds by coupling about two different codons on supports contained in each of ten reaction vessels. This is shown in Figure 2 where each of the two

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codons coupled to a different support can consist of the following sequences: (1) (T/G)TT for Phe and Val; (2) (T/C)CT for Ser and Pro; (3) (T/C)AT for Tyr and His; (4) (T/C)GT for Cys and Arg; (5) (C/A)TG for Leu and Met; (6) (C/G)AG for Gln and Glu; (7) (A/G)CT for Thr and Ala; (8) (A/G)AT for Asn and Asp; (9) (T/G)GG for Trp and Gly and (10) A(T/A)A for Ile and Cys. The slash (/) signifies that a mixture of the monomers indicated on each side of the slash are used as if they were a single monomer in the indicated coupling step. The antisense sequence for each of the above codons can be generated by synthesizing the complementary sequence. For example, the antisense for Phe and Val can be AA(C/A). The amino acids encoded by each of the above pairs of sequences are given as the standard three letter nomenclature.

Coupling of the monomers in this fashion will yield codons specifying all twenty of the naturally occurring amino acids attached to supports in ten reaction vessels. However, the number of individual reaction vessels to be used will depend on the number of codons to be randomized at the desired position and can be determined by one skilled in the art. For example, if ten codons are to be randomized, then five reaction vessels can be used for coupling. The codon sequences given above can be used for this synthesis as well. The sequences of the codons can also be changed to incorporate or be replaced by any of the additional forty-four codons which constitutes the genetic code.

The remaining steps of synthesis of oligonucleotides
with random codons using a smaller number of reaction
vessels are as outlined above for synthesis with twenty
reaction vessels except that the mixing and dividing steps
are performed with supports from about half the number of
reaction vessels. These remaining steps are shown in
Figure 2 (steps 2 through 4).

Oligonucleotides having at least one specified tuplet at a predetermined position and the remaining positions . having random tuplets can also be synthesized using the methods described herein. The synthesis steps are similar 5 to those outlined above using twenty or less reaction vessels except that prior to synthesis of the specified codon position, the dividing of the supports into separate reaction vessels for synthesis of different codons is omitted. For example, if the codon at the second position 10 of the oligonucleotide is to be specified, then following synthesis of random codons at the first position and mixing of the supports, the mixed supports are not divided into new reaction vessels but, instead, can be contained in a single reaction vessel to synthesize the specified codon. 15 The specified codon is synthesized sequentially from individual monomers as described above. Thus, the number of reaction vessels can be increased or decreased at each step to allow for the synthesis of a specified codon or a desired number of random codons.

20 Following codon synthesis, the mixed supports are divided into individual reaction vessels for synthesis of the next codon to be randomized (Figure 1, step 3) or can be used without separation for synthesis of a consecutive specified codon. The rounds of synthesis can be repeated for each codon to be added until the desired number of positions with predetermined or randomized codons are obtained.

Synthesis of oligonucleotides with the first position codon being specified can also be synthesized using the above method. In this case, the first position codon is synthesized from the appropriate monomers. The supports are divided into the required number of reaction vessels needed for synthesis of random codons at the second position and the rounds of synthesis, mixing and dividing are performed as described above.

A method of synthesizing oligonucleotides having tuplets which are diverse but biased toward a predetermined sequence is also described herein. This method employs two reaction vessels, one vessel for the synthesis of a 5 predetermined sequence and the second vessel for the This method random sequence. synthesis of a advantageous to use when a significant number of codon positions, for example, are to be of a specified sequence since it alleviates the use of multiple reaction vessels. Instead, a mixture of four different monomers such as 10 adenine, guanine, cytosine and thymine nucleotides are used for the first and second monomers in the codon. The codon is completed by coupling a mixture of a pair of monomers of either guanine and thymine or cytosine and adenine In the second nucleotides at the third monomer position. 15 vessel, nucleotide monomers are coupled sequentially to yield the predetermined codon sequence. Mixing of the two supports yields a population of oligonucleotides containing both the predetermined codon and the random codons at the 20 desired position. Synthesis can proceed by using this mixture of supports in a single reaction vessel, for example, for coupling additional predetermined codons or, further dividing the mixture into two reaction vessels for synthesis of additional random codons.

25 The two reaction vessel method can be used for codon synthesis within an oligonucleotide with a predetermined tuplet sequence by dividing the support mixture into two portions at the desired codon position to be randomized. Additionally, this method allows for the extent of randomization to be adjusted. For example, unequal mixing or dividing of the two supports will change the fraction of codons with predetermined sequences compared to those with random codons at the desired position. Unequal mixing and dividing of supports can be useful when there is a need to synthesize random codons at a significant number of positions within an oligonucleotide of a longer or shorter

length.

The extent of randomization can also be adjusted by using unequal mixtures of monomers in the first, second and third monomer coupling steps of the random codon position.

The unequal mixtures can be in any or all of the coupling steps to yield a population of codons enriched in sequences reflective of the monomer proportions.

Synthesis of randomized oligonucleotides is performed using methods well known to one skilled in the art. Linear coupling of monomers can, for example, be accomplished using phosphoramidite chemistry with a MilliGen/Biosearch cyclone Plus automated synthesizer as described by the manufacturer (Millipore, Burlington, MA). Other chemistries and automated synthesizers can be employed as well and are known to one skilled in the art.

Synthesis of multiple codons can be performed without modification to the synthesizer by separately synthesizing the codons in individual sets of reactions. Alternatively, modification of an automated DNA synthesizer can be performed for the simultaneous synthesis of codons in multiple reaction vessels.

In one embodiment, the invention provides a plurality of procaryotic cells containing a diverse population of expressible oligonucleotides operationally linked to expression elements, the expressible oligonucleotides having a desirable bias of random codon sequences produced from diverse combinations of first and second oligonucleotides having a desirable bias of random sequences. The invention provides for a method for constructing such a plurality of procaryotic cells as well.

The oligonucleotides synthesized by the above methods can be used to express a plurality of random peptides which

are unbiased, diverse but biased toward a predetermined sequence or which contain at least one specified codon at a predetermined position. The need will determine which type of oligonucleotide is to be expressed to give the 5 resultant population of random peptides and is known to one skilled in the art. Expression can be performed in any compatible vector/host system. Such systems include, for example, plasmids or phagemids in procaryotes such as  $\underline{E}$ . coli, yeast systems, and other eucaryotic systems such as 10 mammalian cells, but will be described herein in context with its presently preferred embodiment, i.e. expression on the surface of filamentous bacteriophage. Filamentous bacteriophage can be, for example, M13, fl and fd. phage have circular single-stranded genomes and double 15 strand replicative DNA forms. Additionally, the peptides can also be expressed in soluble or secreted form depending on the need and the vector/host system employed.

Expression of random peptides on the surface of M13 can be accomplished, for example, using the vector system shown in Figure 3. Construction of the vectors enabling one of ordinary skill to make them are explicitly set out in Examples I and II. The complete nucleotide sequences are given in Figures 5, 6 and 7 (SEQ ID NOS: 1, 2 and 3, produces system This respectively). 25 oligonucleotides functionally linked to expression elements and to gVIII by combining two smaller oligonucleotide portions contained in separate vectors into a single vector. The diversity of oligonucleotide species obtained by this system or others described herein can be 5  $\times$  10 $^7$  or Diversity of less than  $5 \times 10^7$  can also be 30 greater. obtained and will be determined by the need and type of random peptides to be expressed. The random combination of two precursor portions into a larger oligonucleotide increases the diversity of the population several fold and has the added advantage of producing oligonucleotides larger than what can be synthesized by standard methods. Additionally, although the correlation is not known, when the number of possible paths an cligonucleotide can take during synthesis such as described herein is greater than the number of beads, then there will be a correlation between the synthesis path and the sequences obtained. By combining oligonucleotide populations which are synthesized separately, this correlation will be destroyed. Therefore, any bias which may be inherent in the synthesis procedures will be alleviated by joining two precursor portions into a contiguous random oligonucleotide.

Populations of precursor oligonucleotides to be combined into an expressible form are each cloned into separate vectors. The two precursor portions which make up the combined oligonucleotide corresponds to the carboxy and 15 amino terminal portions of the expressed peptide. precursor oligonucleotide can encode either the sense or anti-sense and will depend on the orientation of the expression elements and the gene encoding the fusion portion of the protein as well as the mechanism used to 20 join the two precursor oligonucleotides. For the vectors shown in Figure 3, precursor oligonucleotides corresponding to the carboxy terminal portion of the peptide encode the Those corresponding to the amino terminal sense strand. Oligonucleotide portion encode the anti-sense strand. 25 populations are inserted between the Eco RI and Sac I restriction enzyme sites in M13IX22 and M13IX42 (Figure 3A M13IX42 (SEQ ID NO: 1) is the vector used for sense strand precursor oligonucleotide portions and M13IX22 (SEQ ID NO: 2) is used for anti-sense precursor portions.

The populations of randomized oligonucleotides inserted into the vectors are synthesized with Eco RI and Sac I recognition sequences flanking opposite ends of the random codon sequences. The sites allow annealing and ligation of these single strand oligonucleotides into a double stranded vector restricted with Eco RI and Sac I.

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Alternatively, the oligonucleotides can be inserted into the vector by standard mutagenesis methods. In this latter method, single stranded vector DNA is isolated from the phage and annealed with random oligonucleotides having known sequences complementary to vector sequences. The oligonucleotides are extended with DNA polymerase to produce double stranded vectors containing the randomized oligonucleotides.

The vector used for sense strand oligonucleotide 10 portions, M13IX42 (Figure 3B) contains down-stream and in frame with the Eco RI and Sac I restriction sites a sequence encoding the pseudo-wild type gVIII product. This gene encodes the wild type M13 gVIII amino acid sequence but has been changed at the nucleotide level to reduce 15 homologous recombination with the wild type gVIII contained The wild type gVIII is present to on the same vector. ensure that at least some functional, non-fusion coat protein will be produced. The inclusion of a wild type gVIII therefore reduces the possibility of non-viable phage 20 production and biological selection against certain peptide fusion proteins. Differential regulation of the two genes can also be used to control the relative ratio of the pseudo and wild type proteins.

Also contained downstream and in frame with the Eco RI
and Sac I restriction sites is an amber stop codon. The
mutation is located six codons downstream from Sac I and
therefore lies between the inserted oligonucleotides and
the gVIII sequence. As was the function of the wild type
gVIII, the amber stop codon also reduces biological
selection when combining precursor portions to produce
expressible oligonucleotides. This is accomplished by
using a non-suppressor (sup O) host strain because nonsuppressor strains will terminate expression after the
oligonucleotide sequences but before the pseudo gVIII
sequences. Therefore, the pseudo gVIII will never be

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expressed on the phage surface under these circumstances. Instead, only soluble peptides will be produced. Expression in a non-suppressor strain can be advantageously utilized when one wishes to produce large populations of soluble peptides. Stop codons other than amber, such as opal and ochre, or molecular switches, such as inducible repressor elements, can also be used to unlink peptide expression from surface expression. Additional controls exist as well and are described below.

The vector used for anti-sense strand oligonucleotide portions, M13IX22, (Figure 3A), contains the expression elements for the peptide fusion proteins. Upstream and in frame with the Sac I and Eco RI sites in this vector is a leader sequence for surface expression. A ribosome binding site and Lac Z promoter/operator elements are present for transcription and translation of the peptide fusion proteins.

Both vectors contain a pair of Fok I restriction enzyme sites (Figure 3 A and B) for joining together two 20 precursor oligonucleotide portions and their vector One site is located at the ends of each sequences. precursor oligonucleotide which is to be joined. second Fok I site within the vectors is located at the end of the vector sequences which are to be joined. overhang of this second Fok I site has been altered to encode a sequence which is not found in the overhangs produced at the first Fok I site within the oligonucleotide The two sites allow the cleavage of each circular vector into two portions and subsequent ligation 30 of essential components within each vector into a single circular vector where the two oligonucleotide precursor portions form a contiguous sequence (Figure 3C). compatible overhangs produced at the two Fok I sites allows for performing conditions to be selected optimal concatermization or circularization reactions for joining the two vector portions. Such selection of conditions can be used to govern the reaction order and therefore increase the efficiency of joining.

Fok I is a restriction enzyme whose recognition 5 sequence is distal to the point of cleavage. placement of the recognition sequence in its location to the cleavage point is important since if the two were superimposed within the oligonucleotide portions to be combined, it would lead to an invariant codon sequence at To alleviate the formation of invariant 10 the juncture. codons at the juncture, Fok I recognition sequences can be placed outside of the random codon sequence and still be used to restrict within the random sequence. Subsequent annealing of the single-strand overhangs produced by Fok I and ligation of the two oligonucleotide precursor portions allows the juncture to be formed. A variety of restriction enzymes restrict DNA by this mechanism and can be used instead of Fok I to join precursor oligonucleotides without creating invariant codon sequences. Such enzymes include, 20 for example, Alw I, Bbu I, Bsp MI, Hga I, Hph I, Mbo II, Mnl I, Ple I and Sfa NI. One skilled in the art knows how to substitute Fok I recognition sequences for alternative enzyme recognition sequences such as those above, and use precursor joining for enzyme appropriate the oligonucleotide portions.

precursor of the sequences the Although oligonucleotides are random and will invariably have oligonucleotides within the two precursor populations whose sequences are sufficiently complementary to anneal after 30 cleavage, the efficiency of annealing can be increased by insuring that the single-strand overhangs within one precursor population will have a complementary sequence within the second precursor population. This can be accomplished by synthesizing a non-degenerate series of 35 known sequences at the Fok I cleavage site coding for each

of the twenty amino acids. Since the Fok I cleavage site contains a four base overhang, forty different sequences . are needed to randomly encode all twenty amino acids. example, if two precursor populations of ten codons in 5 length are to be combined, then after the ninth codon position is synthesized, the mixed population of supports are divided into forty reaction vessels for each of the populations and complementary sequences for each of the corresponding reaction vessels between populations are independently synthesized. The sequences are shown in 10 Tables III and VI of Example I where the oligonucleotides on columns 1R through 40R form complementary overhangs with the oligonucleotides on the corresponding columns 1L through 40L once cleaved. The degenerate X positions in 15 Table VI are necessary to maintain the reading frame once the precursor oligonucleotide portions However, use of restriction enzymes which produce a blunt end, such as Mnl I can be alternatively used in place of Fok I to alleviate the degeneracy introduced in maintaining 20 the reading frame.

The last feature exhibited by each of the vectors is an amber stop codon located in an essential coding sequence within the vector portion lost during combining (Figure 3C). The amber stop codon is present to select for viable phage produced from only the proper combination of precursor oligonucleotides and their vector sequences into a single vector species. Other non-sense mutations or selectable markers can work as well.

The combining step randomly brings together different precursor oligonucleotides within the two populations into a single vector (Figure 3C; M13IX). The vector sequences donated from each independent vector, M13IX22 and M13IX42, are necessary for production of viable phage. Also, since the expression elements are contained in M13IX22 and the gVIII sequences are contained in M13IX42, expression of

functional gVIII-peptide fusion proteins cannot be accomplished until the sequences are linked as shown in M13IX.

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The combining step is performed by restricting each randomized containing vectors 5 population of oligonucleotides with Fok I, mixing and ligating (Figure Any vectors generated which contain an amber stop codon will not produce viable phage when introduced into a non-suppressor strain (Figure 3D). Therefore, only the 10 sequences which do not contain an amber stop codon will make up the final population of vectors contained in the library. These vector sequences are the sequences required for surface expression of randomized peptides. analogous methodology, more than two vector portions can be combined into a single vector which expresses random 15 peptides.

The invention provides for a method of selecting peptides capable of being bound by a ligand binding protein from a population of random peptides by (a) operationally linking a diverse population of first oligonucleotides having a desirable bias of random codon sequences to a 20 (b) operationally linking first vector; population of second oligonucleotides having a desirable bias of random codon sequences to a second vector; (c) 25 combining the vector products of steps (a) and (b) under conditions where said populations of first and second oligonucleotides are joined together into a population of combined vectors; (d) introducing said population of combined vectors into a compatible host under conditions 30 sufficient for expressing said population of random peptides; and (e) determining the peptides which bind to said binding protein. The invention also provides for determining the encoding nucleic acid sequence of such peptides as well.

surface expression of the random peptide library is performed in an amber suppressor strain. As described above, the amber stop codon between the random codon sequence and the gVIII sequence unlinks the two components in a non-suppressor strain. Isolating the phage produced from the non-suppressor strain and infecting a suppressor strain will link the random codon sequences to the gVIII sequence during expression (Figure 3E). Culturing the suppressor strain after infection allows the expression of all peptide species within the library as gVIII-peptide fusion proteins. Alternatively, the DNA can be isolated from the non-suppressor strain and then introduced into a suppressor strain to accomplish the same effect.

The level of expression of gVIII-peptide fusion controlled at the additionally be can 15 proteins The gVIII-peptide fusion proteins transcriptional level. Lac inducible control the of the promoter/operator system. Other inducible promoters can work as well and are known by one skilled in the art. 20 high levels of surface expression, the suppressor library is cultured in an inducer of the Lac Z promoter such as isopropylthio-B-galactoside (IPTG). Inducible control is beneficial because biological selection against nonfunctional gVIII-peptide fusion proteins can be minimized 25 by culturing the library under non-expressing conditions. Expression can then be induced only at the time of entire population of screening to ensure that the oligonucleotides within the library are accurately represented on the phage surface. Also this can be used to 30 control the valency of the peptide on the phage surface.

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The surface expression library is screened for specific peptides which bind ligand binding proteins by standard affinity isolation procedures. Such methods include, for example, panning, affinity chromatography and solid phase blotting procedures. Panning as described by

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Parmley and Smith, Gene 73:305-318 (1988), which is incorporated herein by reference, is preferred because high titers of phage can be screened easily, quickly and in small volumes. Furthermore, this procedure can select minor peptide species within the population, which otherwise would have been urdetectable, and amplified to substantially homogenous populations. The selected peptide sequences can be determined by sequencing the nucleic acid encoding such peptides after amplification of the phage population.

The invention provides a plurality of procaryotic cells containing a diverse population of oligonucleotides having a desirable bias of random codon sequences that are operationally linked to expression sequences. The invention provides for methods of constructing such populations of cells as well.

Random oligonucleotides synthesized by any of the methods described previously can also be expressed on the surface of filamentous bacteriophage, such as M13, for example, without the joining together of precursor oligonucleotides. A vector such as that shown in Figure 4, M13IX30, can be used. This vector exhibits all the functional features of the combined vector shown in Figure 3C for surface expression of gVIII-peptide fusion proteins.

The complete nucleotide sequence for M13IX30 (SEQ ID NO: 3) is shown in Figure 7.

M13IX30 contains a wild type gVIII for phage viability and a pseudo gVIII sequence for peptide fusions. The vector also contains in frame restriction sites for cloning random peptides. The cloning sites in this vector are Xho I, Stu I and Spe I. Oligonucleotides should therefore be synthesized with the appropriate complementary ends for annealing and ligation or insertional mutagenesis. Alternatively, the appropriate termini can be generated by

pcR technology. Between the restriction sites and the pseudo gVIII sequence is an in-frame amber stop codon, again, ensuring complete viability of phage in constructing and manipulating the library. Expression and screening is performed as described above for the surface expression library of oligonucleotides generated from precursor portions.

Thus, the invention provides a method of selecting peptides capable of being bound by a ligand binding protein from a population of random peptides by (a) operationally linking a diverse population of oligonucleotides having a desirable bias of random codon sequences to expression elements; (b) introducing said population of vectors into a compatible host under conditions sufficient for expressing said population of random peptides; and (c) determining the peptides which bind to said binding protein. Also provided is a method for determining the encoding nucleic acid sequence of such selected peptides.

The following examples are intended to illustrate, but not limit the invention.

#### EXAMPLE I

# Isolation and Characterization of Peptide Ligands Generated From Right and Left Half Random Oligonucleotides

random synthesis of the example shows 25 oligonucleotides and the construction and expression of surface expression libraries of the encoded randomized peptides. The random peptides of this example derive from joining together of two and mixing the 30 oligonucleotides. Also demonstrated is the isolation and characterization of peptide ligands and their corresponding nucleotide sequence for specific binding proteins.

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## Synthesis of Random Oligonucleotides

The synthesis of two randomized oligonucleotides which correspond to smaller portions of a larger randomized oligonucleotide is shown below. Each of the two smaller 5 portions make up one-half of the larger oligonucleotide. The population of randomized oligonucleotides constituting each half are designated the right and left half. population of right and left halves are ten codons in length with twenty random codons at each position. 10 right half corresponds to the sense sequence of the randomized oligonucleotides and encode the carboxy terminal half of the expressed peptides. The left half corresponds randomized sequence of the anti-sense oligonucleotides and encode the amino terminal half of the 15 expressed peptides. The right and left halves of the randomized oligonucleotide populations are cloned into separate vector species and then mixed and joined so that the right and left halves come together in random combination to produce a single expression vector species 20 which contains a population of randomized oligonucleotides twenty codons in length. Electroporation of the vector population into an appropriate host produces filamentous phage which express the random peptides on their surface.

The reaction vessels for oligonucleotide synthesis 25 were obtained from the manufacturer of the automated supplier of synthesizer (Millipore, Burlington, MA; MilliGen/Biosearch Cyclone Plus Synthesizer). The vessels were supplied as packages containing empty reaction columns (1  $\mu$ mole), frits, crimps and plugs (MilliGen/Biosearch Derivatized and underivatized catalog # GEN 860458). control pore glass, phosphoramidite nucleotides, and obtained also were reagents synthesis Crimper and decrimper tools were MilliGen/Biosearch. obtained from Fisher Scientific Co., Pittsburgh, PA (Catalog numbers 06-406-20 and 06-406-25A, respectively). 35

Ten reaction columns were used for right half synthesis of random oligonucleotides ten codons in length. The oligonucleotides have 5 monomers at their 3' end of the sequence 5'GAGCT3' and 8 monomers at their 5' end of the sequence 5'AATTCCAT3'. The synthesizer was fitted with a column derivatized with a thymine nucleotide (T-column, MilliGen/Biosearch # 0615.50) and was programmed to synthesize the sequences shown in Table I for each of ten columns in independent reaction sets. The sequence of the last three monomers (from right to left since synthesis proceeds 3' to 5') encode the indicated amino acids:

Table I

	Column			Sequence (5' to 3')	Amir	10 AC	ids
15	column	1R		(T/G)TTGAGCT	Phe	and	Val
	column	2R		(T/C) CTGAGCT	Ser	and	Pro
	column	3R		(T/C)ATGAGCT	Tyr	and	His
	column	4R		(T/C)GTGAGCT	Cys	and	Arg
	column	5R		(C/A)TGGAGCT	Leu	and	Met
20	column	6R		(C/G) AGGAGCT	Gln	and	Glu
	column	7R		(A/G) CTGAGCT	Thr	and	Ala
	column	8R		(A/G) ATGAGCT	Asn	and	Asp
	column			(T/G)GGGAGCT	Trp	and	Gly
	column		•	A(T/A)AGAGCT	Ile	and	Cys

where the two monomers in parentheses denote a single monomer position within the codon and indicate that an equal mixture of each monomer was added to the reaction for coupling. The monomer coupling reactions for each of the 10 columns were performed as recommended by the manufacturer (amidite version S1.06, # 8400-050990, scale 1 μM). After the last coupling reaction, the columns were washed with acetonitrile and lyophilized to dryness.

Following synthesis, the plugs were removed from each

column using a decrimper and the reaction products were poured into a single weigh boat. Initially the bead mass increases, due to the weight of the monomers, however, at later rounds of synthesis material is lost. In either 5 case, the material was equalized with underivatized control pore glass and mixed thoroughly to obtain a random The reaction distribution of all twenty codon species. products were then aliquotted into 10 new reaction columns by removing 25 mg of material at a time and placing it into separate reaction columns. Alternatively, the reaction products can be aliquotted by suspending the beads in a liquid that is dense enough for the beads to remain dispersed, preferably a liquid that is equal in density to the beads, and then aliquoting equal volumes of the suspension into separate reaction columns. The lip on the inside of the columns where the frits rest was cleared of material using vacuum suction with a syringe and 25 G New frits were placed onto the lips, the plugs needle. were fitted into the columns and were crimped into place using a crimper. 20

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Synthesis of the second codon position was achieved using the above 10 columns containing the random mixture of reaction products from the first codon synthesis. monomer coupling reactions for the second codon position are shown in Table II. An  $\underline{A}$  in the first position means that any monomer can be programmed into the synthesizer. At that position, the first monomer position is not coupled by the synthesizer since the software assumes that the An A also monomer is already attached to the column. 30 denotes that the columns from the previous codon synthesis should be placed on the synthesizer for use in the present Reactions were again sequentially synthesis round. repeated for each column as shown in Table II and the reaction products washed and dried as described above.

#### Table II

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	Column	Sequence (5' to 3')	Amino Acids
5	column 1R	(T/G) TT <u>A</u>	Phe and Val
	column 2R	(T/C)CT <u>A</u>	Ser and Pro
	column 3R	(T/C) AT <u>A</u>	Tyr and His
	column 4R	(T/C)GT <u>A</u>	Cys and Arg
	column 5R	(C/A) TG <u>A</u>	Leu and Met
	column 6R	(C/G)AG <u>A</u>	Gln and Glu
10	column 7R	(A/G) CT <u>A</u>	Thr and Ala
	column 8R	(A/G)AT <u>A</u>	Asn and Asp
	column 9R	(T/G)GG <u>A</u>	Trp and Gly
	column 10R	A(T/A)A <u>A</u>	Ile and Cys

Randomization of the second codon position was achieved by removing the reaction products from each of the columns and thoroughly mixing the material. The material was again divided into new reaction columns and prepared for monomer coupling reactions as described above.

Random synthesis of the next seven codons (positions 3 through 9) proceeded identically to the cycle described above for the second codon position and again used the monomer sequences of Table II. Each of the newly repacked columns containing the random mixture of reaction products from synthesis of the previous codon position was used for the synthesis of the subsequent codon position. After synthesis of the codon at position nine and mixing of the reaction products, the material was divided and repacked into 40 different columns and the monomer sequences shown in Table III were coupled to each of the 40 columns in independent reactions. The oligonucleotides from each of the 40 columns were mixed once more and cleaved from the control pore glass as recommended by the manufacturer.

### Table III

		(=1 to 2!\
•	Column	Sequence (5' to 3')
	column 1R	AATTCTTTT <u>A</u>
5	column 2R	AATTCTGTT <u>A</u>
	column 3R	AATTCGTTT <u>A</u>
	column 4R	AATTCGGTT <u>A</u>
	column 5R	AATTCTTCT <u>A</u>
	column 6R	AATTCTCCT <u>A</u>
10	column 7R	AATTCGTCT <u>A</u>
	column 8R	AATTCGCCT <u>A</u>
	column 9R	AATTCTTAT <u>A</u>
	column 10R	AATTCTCAT <u>A</u>
	column 11R	AATTCGTAT <u>A</u>
15	column 12R	AATTCGCAT <u>A</u>
	column 13R	AATTCTTGTA
•	column 14R	AATTCTCGT <u>A</u>
	column 15R	AATTCGTGT <u>A</u>
	column 16R	AATTCGCGT <u>A</u>
20	column 17R	AATTCTCTG <u>A</u>
	column 18R	AATTCTATG <u>A</u>
	column 19R	AATTCGCTG <u>A</u>
	column 20R	AATTCGATG <u>A</u>
	column 21R	AATTCTCAG <u>A</u>
25	column 22R	AATTCTGAG <u>A</u>
	column 23R	AATTCGCAG <u>A</u>
	column 24R	AATTCGGAG <u>A</u>
	column 25R	AATTCTACT <u>A</u>
•	column 26R	AATTCTGCT <u>A</u>
30	column 27R	AATTCGACT <u>A</u>
	column 28R	AATTCGGCT <u>A</u>
	column 29R	AATTCTAAT <u>A</u>
	column 30R	aattctgat <u>a</u>
	column 31R	AATTCGAAT <u>A</u>
35	column 32R	AATTCGGAT <u>A</u>
	column 33R	AATTCTIGG <u>A</u>

	column 34	R AATTCTGGG <u>A</u>
	column 35	R AATTCGTGG <u>A</u>
	column 36	R AATTCGGGG <u>A</u>
•	column 37	R AATTCTATA <u>A</u>
5	column 38	R AATTCTAAA <u>A</u>
-	column 391	R AATTCGATA <u>A</u>
	column 401	AATTCGAAA <u>A</u>

Left half synthesis of random oligonucleotides proceeded similarly to the right half synthesis. This half of the oligonucleotide corresponds to the anti-sense sequence of the encoded randomized peptides. Thus, the complementary sequence of the codons in Tables I through III are synthesized. The left half oligonucleotides also have 5 monomers at their 3' end of the sequence 5'GAGCT3' and 8 monomers at their 5' end of the sequence 5'AATTCCAT3'. The rounds of synthesis, washing, drying, mixing, and dividing are as described above.

fitted with a T-column and programmed to synthesize the sequences shown in Table IV for each of ten columns in independent reaction sets. As with right half synthesis, the sequence of the last three monomers (from right to left) encode the indicated amino acids:

#### <u>Table IV</u>

·	Column		Seque (5' to		<u>Ami</u>	no A	cids
•	column	1L	AA(A/C	) GAGCT	Phe	and	Val
5	column	2L	AG(A/G	) gagct	Ser	and	Pro
	column	3L	AT(A/G	) GAGCT	Tyr	and	His
	column	4L	AC(A/G	) GAGCT	Cys	and	Arg
	column	5L	CA(G/T	) GAGCT	Leu	and	Met
	column	6L	CT(G/C)	) GAGCT	Gln	and	Glu
10	column	7L	AG(T/C)	GAGCT	Thr	and	Ala
	column	8L	AT(T/C)	GAGCT	Asn	and	Asp
	column	9L	CC(A/C)	GAGCT	Trp	and	Gly
	column	10L	T(A/T)7	rgagct	Ile	and	Cys

Following washing and drying, the plugs for each column were removed, mixed and aliquotted into ten new reaction columns as described above. Synthesis of the second codon position was achieved using these ten columns containing the random mixture of reaction products from the first codon synthesis. The monomer coupling reactions for the second codon position are shown in Table V.

#### Table V

	Column	(5, to 3,)	Amino Acids
	column 1L	$AA(A/C)\underline{A}$	Phe and Val
25	column 2L	$AG(A/G)\underline{A}$	Ser and Pro
	column 3L	$AT(A/G)\underline{A}$	Tyr and His
	column 4L	$AC(A/G)\underline{A}$	Cys and Arg
	column 5L	$CA(G/T)\underline{A}$	Leu and Met
	column 6L	$\mathtt{CT}(G/C)\underline{\mathtt{A}}$	Gln and Glu
30	column 7L	$AG(T/C)\underline{A}$	Thr and Ala
	column 8L	AT (T/C) <u>A</u>	Asn and Asp
	column 9L	CC(A/C) <u>A</u>	Trp and Gly
	column 10L	T(A/T)TA	Ile and Cys

Again, randomization of the second codon position was achieved by removing the reaction products from each of the columns and thoroughly mixing the beads. The beads were repacked into ten new reaction columns.

Proceeded identically to the cycle described above for the second codon position and again used the monomer sequences of Table V. After synthesis of the codon at position nine and mixing of the reaction products, the material was divided and repacked into 40 different columns and the monomer sequences shown in Table VI were coupled to each of the 40 columns in independent reactions.

#### Table VI

15	Column	Sequence (5' to 3')
	column 1L	AATTCCATAAAAXXA
	column 2L	AATTCCATAAACXX <u>A</u>
	column 3L	AATTCCATAACAXX <u>A</u>
	column 4L	AATTCCATAACCXX <u>A</u>
20	column 5L	AATTCCATAGAAXX <u>A</u>
20	column 6L	AATTCCATAGACXXA
	column 7L	AATTCCATAGGAXX <u>A</u>
	column 8L	AATTCCATAGGCXX <u>A</u>
	column 9L	AATTCCATATAAXXA
25	column 10L	AATTCCATATACXXA
	column 11L	AATTCCATATGAXX <u>A</u>
	column 12L	AATTCCATATGCXX $\underline{A}$
	column 13L	AATTCCATACAAXX <u>A</u>
	column 14L	AATTCCATACACXX <u>A</u>
30	column 15L	AATTCCATACGAXX <u>A</u>
30	- column 16L	AATTCCATACGCXX <u>A</u>
	column 17L	AATTCCATCAGAXX <u>A</u>
	column 18L	AATTCCATCAGCXX $\underline{A}$
	column 19L	AATTCCATCATAXXA
35	column 20L	AATTCCATCATCXXA
3.5		

	colu	nn 21	LL	AATTCCATCTGAXX <u>A</u>
	colu	mn 22	2L	AATTCCATCTGCXX <u>A</u>
	colu	mn 23	3L	AATTCCATCTCAXX <u>A</u>
	colu	mn 24	L	AATTCCATCTCCXX <u>A</u>
	colu	mn 25	5L	AATTCCATAGTAXX <u>A</u>
	colu	mn 26	5L	AATTCCATAGTCXX <u>A</u>
	colu	mn 27	7L	AATTCCATAGCAXX <u>A</u>
	colu	nn 28	BL	AATTCCATAGCCXX <u>A</u>
	colu	nn 29	L	AATTCCATATTAXX <u>A</u>
1	colu	nn 30	L	AATTCCATATTCXX <u>A</u>
_	colu	nn 31	L	AATTCCATATCAXX <u>A</u>
	colu	nn 32	L.	AATTCCATATCCXX <u>A</u>
	colu	nn 33	L	AATTCCATCCAAXX <u>A</u>
	colu	nn 34	L	AATTCCATCCACXX <u>A</u>
1	colu	nn 35	5L	AATTCCATCCCAXX <u>A</u>
Ī	colu	nn 36	5L	AATTCCATCCCCXX <u>A</u>
	colu	nn 37	'L	AATTCCATTATAXX <u>A</u>
	colu	nn 38	3L	AATTCCATTATCXX <u>A</u>
	colu	mn 39	L	AATTCCATTTTAXX <u>A</u>
2	o colu	mn 40	)L	AATTCCATTTTCXX <u>A</u>

The first two monomers denoted by an "X" represent an equal mixture of all four nucleotides at that position. This is necessary to retain a relatively unbiased codon sequence at the junction between right and left half oligonucleotides. The above right and left half random oligonucleotides were cleaved and purified from the supports and used in constructing the surface expression libraries below.

#### Vector Construction

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Two M13-based vectors, M13IX42 (SEQ ID NO: 1) and M13IX22 (SEQ ID NO: 2), were constructed for the cloning and propagation of right and left half populations of random oligonucleotides, respectively. The vectors were specially constructed to facilitate the random joining and subsequent expression of right and left half

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Each vector within the oligonucleotide populations. left half and one one right population contains . oligonucleotide from the population joined together to form a single contiguous oligonucleotide with random codons The resultant 5 which is twenty-two codons in length. population of vectors are used to construct a surface expression library.

M13IX42, or the right-half vector, was constructed to randomized half populations of right the 10 oligonucleotides. M13mp18 (Pharmacia, Piscataway, NJ) was the starting vector. This vector was genetically modified to contain, in addition to the encoded wild type M13 gene VIII already present in the vector: (1) a pseudo-wild type M13 gene VIII sequence with a stop codon (amber) placed 15 between it and an Eco RI-Sac I cloning site for randomized oligonucleotides; (2) a pair of Fok I sites to be used for joining with M13IX22, the left-half vector; (3) a second amber stop codon placed on the opposite side of the vector than the portion being combined with the left-half vector; and (4) various other mutations to remove redundant restriction sites and the amino terminal portion of Lac Z.

The pseudo-wild type M13 gene VIII was used for surface expression of random peptides. The pseudo-wild type gene encodes the identical amino acid sequence as that 25 of the wild type gene; however, the nucleotide sequence has been altered so that only 63% identity exists between this gene and the encoded wild type gene VIII. Modification of the gene VIII nucleotide sequence used for surface of possibility the reduces expression 30 recombination with the wild type gene VIII contained on the same vector. Additionally, the wild type M13 gene VIII was retained in the vector system to ensure that at least some functional, non-fusion coat protein would be produced. The inclusion of wild type gene VIII therefore reduces the possibility of non-viable phage production from the random peptide fusion genes.

The pseudo-wild type gene VIII was constructed by chemically synthesizing a series of oligonucleotides which encode both strands of the gene. The oligonucleotides are presented in Table VII (SEQ ID NOS: 7 through 16).

TABLE VII

Pseudo-Wild Type Gene VIII Oligonucleotide Series

	Top Strand Oligonucleotides	Sequence (5' to 3')
10	VIII 03	GATCC TAG GCT GAA GGC GAT GAC CCT GCT AAG GCT GC
	VIII 04	A TTC AAT AGT TTA CAG GCA AGT GCT ACT GAG TAC A
15	VIII 05	TT GGC TAC GCT TGG GCT ATG GTA GTA GTT ATA GTT
13	VIII 06	GGT GCT ACC ATA GGG ATT AAA TTA TTC AAA AAG TT
	VIII 07	T ACG AGC AAG GCT TCT TA
20	Bottom Strand Oligonucleotides	
	VIII 08	AGC TTA AGA AGC CTT GCT CGT
	VIII 09	AAT CCC TAT GGT AGC ACC AAC TAT AAC TAC TAC CAT
25	VIII 10	AGC CCA AGC GTA GCC AAT GTA CTC AGT AGC ACT TG
	VIII 11	C CTG TAA ACT ATT GAA TGC AGC CTT AGC AGG GTC
	VIII 12	ATC GCC TTC AGC CTA G

30 Except for the terminal oligonucleotides VIII 03 (SEQ

ID NO: 7) and VIII 08 (SEQ ID NO: 12), the above oligonucleotides (oligonucleotides VIII 04-VIII 07 and 09-. 12 (SEQ ID NOS: 8 through 11 and 13 through 16)) were mixed at 200 ng each in 10  $\mu$ l final volume and phosphorylated 5 with T4 polynucleotide Kinase (Pharmacia, Piscataway, NJ) with 1 mM ATP at 37°C for 1 hour. The reaction was stopped Terminal oligonucleotides were at 65°C for 5 minutes. added to the mixture and annealed into double-stranded form by heating to 65°C for 5 minutes, followed by cooling to 10 room temperature over a period of 30 minutes. The annealed oligonucleotides were ligated together with 1.0 U of T4 DNA ligase (BRL). The annealed and ligated oligonucleotides yield a double-stranded DNA flanked by a Bam HI site at its 5' end and by a Hind III site at its 3' end. 15 translational stop codon (amber) immediately follows the Bam HI site. The gene VIII sequence begins with the codon GAA (Glu) two codons 3' to the stop codon. The doublestranded insert was phosphorylated using T4 DNA Kinase (Pharmacia, Piscataway, NJ) and ATP (10 mM Tris-HCl, pH 20 7.5, 10 mM MgCl<sub>2</sub>) and cloned in frame with the Eco RI and Sac I sites within the M13 polylinker. To do so, M13mp18 was digested with Bam HI (New England Biolabs, Beverley, MA) and Hind III (New England Biolabs) and combined at a molar ratio of 1:10 with the double-stranded insert. 25 ligations were performed at 16°C overnight in 1X ligase buffer (50 mM Tris-HCl, pH 7.8, 10 mM MgCl2, 20 mM DTT, 1 mM ATP, 50  $\mu$ g/ml BSA) containing 1.0 U of T4 DNA ligase (New England Biolabs). The ligation mixture was transformed into a host and screened for positive clones using standard 30 procedures in the art.

Several mutations were generated within the right-half vector to yield functional M13IX42. The mutations were generated using the method of Kunkel et al., Meth. Enzymol. 154:367-382 (1987), which is incorporated herein by reference, for site-directed mutagenesis. The reagents, strains and protocols were obtained from a Bio Rad

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Mutagenesis kit (Bio Rad, Richmond. CA) and mutagenesis was performed as recommended by the manufacturer.

A Fok I site used for joining the right and left halves was generated 8 nucleotides 5' to the unique Eco RI the oligonucleotide 5'-CTCGAATTCGTACATCCT site using The second Fok I site GGTCATAGC-3' (SEQ ID NO: 17). retained in the vector is naturally encoded at position 3547; however, the sequence within the overhang was changed to encode CTTC. Two Fok I sites were removed from the 10 vector at positions 239 and 7244 of M13mpl8 as well as the Hind III site at the end of the pseudo gene VIII sequence using the mutant oligonucleotides 5'-CATTTTTGCAGATGGCTTAGA -3' (SEQ ID NO: 18) and 5'-TAGCATTAACGTCCAATA-3' (SEQ ID NO: 19), respectively. New Hind III and Mlu I sites were also introduced at position 3919 and 3951 of M13IX42. 15 oligonucleotides used for this mutagenesis had the sequences 5'-ATATATTTTAGTAAGCTTCATCTTCT-3' (SEQ ID NO: 20) 5'-GACAAAGAACGCGTGAAAACTTT-3' (SEQ ID respectively. The amino terminal portion of Lac Z was 20 deleted by oligonucleotide-directed mutagenesis using the oligonucleotide GCGGGCCTCTTCGCTATTGCTTAAGAAGCCTTGCT-3' (SEQ ID NO: 22). This deletion also removed a third M13mp18 derived Fok I The distance between the Eco RI and Sac I sites was increased to ensure complete double digestion by inserting a spacer sequence. The spacer sequence was inserted using oligonucleotide TTCAGCCTAGGATCCGCCGAGCTCTCCTACCTGCGAATTCGTACATCC-3 (SEQID Finally, an amber stop codon was placed at using the mutant oligonucleotide 5'position 4492 TGGATTATACTTCTA AATAATGGA-3' (SEQ ID NO: 24). stop codon is used as a biological selection to ensure the proper recombination of vector sequences to bring together right and left halves of the randomized oligonucleotides. 35 In constructing the above mutations, all changes made in a M13 coding region were performed such that the amino acid sequence remained unaltered. It should be noted that several mutations within M13mp18 were found which differed from the published sequence. Where known, these sequence differences are recorded herein as found and therefore may not correspond exactly to the published sequence of M13mp18.

The sequence of the resultant vector, M13IX42, is shown in Figure 5 (SEQ ID NO: 1). Figure 3A also shows M13IX42 where each of the elements necessary for producing a surface expression library between right and left half randomized oligonucleotides is marked. The sequence between the two Fok I sites shown by the arrow is the portion of M13IX42 which is to be combined with a portion of the left-half vector to produce random oligonucleotides as fusion proteins of gene VIII.

M13IX22, or the left-half vector, was constructed to populations of randomized left half the harbor oligonucleotides. This vector was constructed from M13mpl9 (Pharmacia, Piscataway, NJ) and contains: (1) Two Fok I 20 sites for mixing with M13IX42 to bring together the left and right halves of the randomized oligonucleotides; (2) sequences necessary for expression such as a promoter and signal sequence and translation initiation signals; (3) an randomized the for site cloning I RI-Sac Eco 25 oligonucleotides; and (4) an amber stop codon for biological selection in bringing together right and left half oligonucleotides.

Of the two Fok I sites used for mixing M13IX22 with M13IX42, one is naturally encoded in M13mp18 and M13mp19 (at position 3547). As with M13IX42, the overhang within this naturally occurring Fok I site was changed to CTTC. The other Fok I site was introduced after construction of the translation initiation signals by site-directed mutagenesis using the oligonucleotide 5'-

TAACACTCATTCCGGATGGAATTCTGGAGTCTGGGT-3' (SEQ ID NO: 25).

The translation initiation signals were constructed by annealing of overlapping oligonucleotides as described above to produce a double-stranded insert containing a 5'

5 Eco RI site and a 3' Hind III site. The overlapping oligonucleotides are shown in Table VIII (SEQ ID NOS: 26 through 34) and were ligated as a double-stranded insert between the Eco RI and Hind III sites of M13mp18 as described for the pseudo gene VIII insert. The ribosome binding site (AGGAGAC) is located in oligonucleotide 015 (SEQ ID NO: 26) and the translation initiation codon (ATG) is the first three nucleotides of oligonucleotide 016 (SEQ ID NO: 27).

#### TABLE VIII

## Oligonucleotide Series for Construction of Translation Signals in M13IX22

	Oligonucleotide	Sequence (5' to 3')
	015 016	AATT C GCC AAG GAG ACA GTC AT AATG AAA TAC CTA TTG CCT ACG GCA GCC GCT GGA TTG TT
20	017	ATTA CTC GCT GCC CAA CCA GCC ATG
	018	GACC CAG ACT CCA GATATC CAA CAG GAA TGA GTG TTA AT
25	019 020	TCT AGA ACG CGT C  ACGT G ACG CGT TCT AGA AT TAA
	021	CACTCA TTC CTG T  TG GAT ATC TGG AGT CTG GGT CAT  CAC GAG CTC GGC CAT G
30	022	GC TGG TTG GGC AGC GAG TAA TAA
	023	GT AGG CAA TAG GTA TTT CAT TAT GAC TGT CCT TGG CG

Oligonucleotide 017 (SEQ ID NO: 27) contained a Sac I restriction site 67 nucleotides downstream from the ATG codon. The naturally occurring Eco RI site was removed and a new site introduced 25 nucleotides downstream from the Sac I. Oligonucleotides 5'-TGACTGTCTCCTTGGCGTGTGAAATTGTTA-3' (SEQ ID NO: 35) and 5'-TAACACTCATTCCGGATGGAATTCTGGAGTCT GGGT-3' (SEQ ID NO: 36) were used to generate each of the mutations, respectively. An amber stop codon was also introduced at position 3263 of M13mp18 using the oligonucleotide 5'-CAATTTTATCCTAAATCTTACCAAC-3' (SEQ ID NO: 37).

In addition to the above mutations, a variety of other modifications were made to remove certain sequences and redundant restriction sites. The LAC Z ribosome binding site was removed when the original Eco RI site in M13mp18 was mutated. Also, the Fok I sites at positions 239, 6361 and 7244 of M13mp18 were likewise removed with mutant oligonucleotides 5'-CATTTTTGCAGATGGCTTAGA-3' (SEQ ID NO: 38), 5'-CGAAAGGGGGGTGTGCTGCAA-3' (SEQ ID NO: 39) and 5'-TAGCATTAACGTCCAATA-3' (SEQ ID NO: 40), respectively. Again, mutations within the coding region did not alter the amino acid sequence.

The resultant vector, M13IX22, is 7320 base pairs in length, the sequence of which is shown in Figure 6 (SEQ ID NO: 2). The Sac I and Eco RI cloning sites are at positions 6290 and 6314, respectively. Figure 3A also shows M13IX22 where each of the elements necessary for producing a surface expression library between right and left half randomized oligonucleotides is marked.

## 30 Library Construction

Each population of right and left half randomized oligonucleotides from columns 1R through 40R and columns 1L through 40L are cloned separately into M13IX42 and M13IX22,

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respectively, to create sublibraries of right and left half randomized oligonucleotides. Therefore, a total of eighty sublibraries are generated. Separately maintaining each population of randomized oligonucleotides until the final 5 screening step is performed to ensure maximum efficiency of annealing of right and left half oligonucleotides. greater efficiency increases the total number of randomized oligonucleotides which can be obtained. Alternatively, one right populations of forty all combine oligonucleotides (columns 1R-40R) into one population and of left half oligonucleotides (columns 1L-40L) into a second population to generate just one sublibrary for each.

For the generation of sublibraries, each of the above populations of randomized oligonucleotides are cloned separately into the appropriate vector. The right half oligonucleotides are cloned into M13IX42 to generate sublibraries M13IX42.1R through M13IX42.40R. The left half oligonucleotides are similarly cloned into M13IX22 to generate sublibraries M13IX22.1L through M13IX22.40L. Each 20 vector contains unique Eco RI and Sac I restriction enzyme sites which produce 5' and 3' single-stranded overhangs, respectively, when digested. The single strand overhangs ligation annealing and for the are complementary single-stranded random oligonucleotides.

The randomized oligonucleotide populations are cloned 25 between the Eco RI and Sac I sites by sequential digestion and ligation steps. Each vector is treated with an excess of Eco RI (New England Biolabs) at 37°C for 2 hours followed by addition of 4-24 units of calf intestinal alkaline phosphatase (Boehringer Mannheim, Indianapolis, IN). Reactions are stopped by phenol/chloroform extraction and ethanol precipitation. The pellets are resuspended in an appropriate amount of distilled or deionized water  $(dH_2O)$ . About 10 pmol of vector is mixed with a 5000-fold randomized population cf each of excess molar 35

oligonucleotides in 10  $\mu$ l of 1% ligase buffer (50 mM Tris-HCl, pH 7.8, 10 mM MgCl<sub>2</sub>, 20 mM DTT, 1 mM ATP, 50  $\mu$ g/ml BSA) containing 1.0 U of T4 DNA ligase (BRL, Gaithersburg, MD). The ligation is incubated at 16°C for 16 hours. Reactions 5 are stopped by heating at 75°C for 15 minutes and the DNA is digested with an excess of Sac I (New England Biolabs) for 2 hours. Sac I is inactivated by heating at 75°C for 15 minutes and the volume of the reaction mixture is adjusted to 300  $\mu$ l with an appropriate amount of 10X ligase 10 buffer and dH20. One unit of T4 DNA ligase (BRL) is added and the mixture is incubated overnight at 16°C. The DNA is ethanol precipitated and resuspended in TE (10 mM Tris-HCl, DNA from each ligation is pH 8.0, 1 mM EDTA). electroporated into XL1 Blue the cells (Stratagene, La Jolla, 15 CA), as described below, to generate the sublibraries.

E. coli XL1 Blue is electroporated as described by Smith et al., Focus 12:38-40 (1990) which is incorporated herein by reference. The cerls are prepared by inoculating a fresh colony of XL1s into 5 mls of SOB without magnesium 20 (20 g bacto-tryptone, 5 g bacto-yeast extract, 0.584 g NaCl, 0.186 g KCl,  $dH_2O$  to 1,000 mls) and grown with vigorous aeration overnight at 37°C. SOB without magnesium (500 ml) is inoculated at 1:1000 with the overnight culture and grown with vigorous aeration at 37°C until the  $OD_{550}$  is 25 0.8 (about 2 to 3 h). The cells are harvested by centrifugation at 5,000 rpm (2,600 x g) in a GS3 rotor (Sorvall, Newtown, CT) at 4°C for 10 minutes, resuspended in 500 ml of ice-cold 10% (v/v) sterile glycerol and centrifuged and resuspended a second time in the same After a third centrifugation, the cells are resuspended in 10% sterile glycerol at a final volume of about 2 ml, such that the  $OD_{550}$  of the suspension is 200 to 300. Usually, resuspension is achieved in the 10% glycerol that remains in the bottle after pouring off the supernate. 35 Cells are frozen in 40  $\mu$ l aliquots in microcentrifuge tubes using a dry ice-ethanol bath and stored frozen at -70°C.

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Frozen cells are electroporated by thawing slowly on ice before use and mixing with about 10 pg to 500 ng of vector per 40 µl of cell suspension. A 40 µl aliquot is placed in an 0.1 cm electroporation chamber (Bio-Rad, Richmond, CA) and pulsed once at 0°C using 200 Ω parallel resistor, 25 µF, 1.88 kV, which gives a pulse length (τ) of 4 ms. A 10 µl aliquot of the pulsed cells are diluted into 1 ml SOC (98 mls SOB plus 1 ml of 2 M MgCl, and 1 ml of 2 M glucose) in a 12- x 75-mm culture tube, and the culture is shaken at 37°C for 1 hour prior to culturing in selective media, (see below).

methods known to one skilled in the art. Such methods can be found in Sanbrook et al., Molecular Cloning: A Laboratory Manuel, Cold Spring Harbor Laboratory, Cold Spring Harbor, 1989, and in Ausubel et al., Current Protocols in Molecular Biology, John Wiley and Sons, New York, 1989, both of which are incorporated herein by reference. Briefly, the above 1 ml sublibrary cultures were grown up by diluting 50-fold into 2XYT media (16 g tryptone, 10 g yeast extract, 5 g NaCl) and culturing at 37°C for 5-8 hours. The bacteria were pelleted by centrifugation at 10,000 xg. The supernatant containing phage was transferred to a sterile tube and stored at 4°C.

Double strand vector DNA containing right and left half randomized oligonucleotide inserts is isolated from the cell pellet of each sublibrary. Briefly, the pellet is washed in TE (10 mM Tris, pH 8.0, 1 mM EDTA) and recollected by centrifugation at 7,000 rpm for 5' in a Sorval centrifuge (Newtown, CT). Pellets are resuspended in 6 mls of 10% Sucrose, 50 mM Tris, pH 8.0. 3.0 ml of 10 mg/μl lysozyne is added and incubated on ice for 20 minutes. 12 mls of 0.2 M NaOH, 1% SDS is added followed by 10 minutes on ice. The suspensions are then incubated on ice for 20 minutes after addition of 7.5 mls of 3 M NaOAC,

pH 4.6. The samples are centrifuged at 15,000 rpm for 15 extracted with and 4°C, RNased at minutes phenol/chloroform, followed by ethanol precipitation. The pellets are resuspended, weighed and an equal weight of 5 CsCl<sub>2</sub> is dissolved into each tube until a density of 1.60 EtBr is added to 600  $\mu$ g/ml and the g/ml is achieved. isolated by equilibrium is double-stranded DNA centrifugation in a TV-1665 rotor (Sorval) at 50,000 rpm for 6 hours. These DNAs from each right and left half 10 sublibrary are used to generate forty libraries in which the left halves of and oligonucleotides have been randomly joined together.

Each of the forty libraries are produced by joining together one right half and one left half sublibrary. 15 two sublibraries joined together corresponded to the same left half right and for number column sublibrary example, oligonucleotide synthesis. For M13IX42.1R is joined with \13IX22.1L to produce the surface expression library M13IX.1RL. In the alternative situation 20 where only two sublibraries are generated from the combined populations of all right half synthesis and all left half synthesis, only one surface expression library would be produced.

For the random joining of each right and left half into a single populations 25 oligonucleotide expression vector species, the DNAs isolated from each sublibrary are digested an excess of Fok I (New England Biolabs). The reactions are stopped by phenol/chloroform extraction, followed by ethanol precipitation. Pellets are 30 resuspended in dH20. Each surface expression library is generated by ligating equal molar amounts (5-10 pmol) of Fok I digested DNA isolated from corresponding right and left half sublibraries in 10  $\mu$ l of 1X ligase buffer containing 1.0 U of T4 DNA ligase (Bethesda Research Laboratories, Gaithersburg, MD). The ligations proceed 35

overnight at 16°C and are electroporated into the sup 0 strain MK30-3 (Boehringer Mannheim Biochemical, (BMB), Indianapolis, IN) as previously described for XL1 cells. Because MK30-3 is sup 0, only the vector portions encoding the randomized oligonucleotides which come together will produce viable phage.

## Screening of Surface Expression Libraries

Purified phage are prepared from 50 ml liquid cultures of XL1 Blue the cells (Stratagene) which are infected at a m.o.i. of 10 from the phage stocks stored at 4°C. cultures are induced with 2 mM IPTG. Supernatants from all cultures are combined and cleared by two centrifugations, and the phage are precipitated by adding 1/7.5 volumes of PEG solution (25% PEG-8000, 2.5 M NaCl), followed by 15 incubation at 4°C overnight. The precipitate is recovered by centrifugation for 90 minutes at 10,000 x g. pellets are resuspended in 25 ml of 0.01 M Tris-HCl, pH 7.6, 1.0 mM EDTA, and 0.1% Sarkosyl and then shaken slowly The solutions are at room temperature for 30 minutes. 20 adjusted to 0.5 M NaCl and to a final concentration of 5% 2 hours at After polyethylene glycol. precipitates containing the phage are recovered by centrifugation for 1 hour at 15,000 X g. The precipitates are resuspended in 10 ml of NET buffer (0.1 M NaCl, 1.0 mM EDTA, and 0.01 M Tris-HCl, pH 7.6), mixed well, and the 25 phage repelleted by centrifugation at 170,000 X g for 3 The phage pellets are subsequently resuspended overnight in 2 ml of NET buffer and subjected to cesium chloride centrifugation for 18 hours at 110,000 X g (3.86 30 g of cesium chloride in 10 ml of buffer). Phage bands are collected, diluted 7-fold with NET buffer, recentrifuged at 170,000 X g for 3 hours, resuspended, and stored at 4°C in 0.3 ml of NET buffer containing 0.1 mM sodium azide.

Ligand binding proteins used for panning on

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streptavidin coated dishes are first biotinylated and then absorbed against UV-inactivated blocking phage (see below). dissolved biotinylating reagents are dimethylformamide at a ratio of 2.4 mg solid NHS-SS-Biotin 5 (sulfosuccinimidyl 2-(biotinamido)ethyl-1,3'dithiopropionate; Pierce, Rockford, IL) to 1 ml solvent and used as recommended by the manufacturer. Small-scale reactions are accomplished by mixing 1  $\mu$ l dissolved reagent with 43  $\mu$ l of 1 mg/ml ligand binding protein diluted in 10 sterile bicarbonate buffer (0.1 M NaHCO3, pH 8.6). After 2 hours at 25°C, residual biotinylating reagent is reacted with 500  $\mu$ l 1 M ethanolamine (pH adjusted to 9 with HCl) for an additional 2 hours. The entire sample is diluted with 1 ml TBS containing 1 mg/ml BSA, concentrated to about 15 50  $\mu$ l on a Centricon 30 ultra-filter (Amicon), and washed on the same filter three times with 2 ml TBS and once with 1 ml TBS containing 0.02% NaN3 and 7 x  $10^{12}$  UV-inactivated blocking phage (see below); the final retentate (60-80  $\mu$ l) is stored at 4°C. Ligand Dinding proteins biotinylated 20 with the NHS-SS-Biotin reagent are linked to biotin via a disulfide-containing chain.

UV-irradiated M13 phage were used for blocking binding proteins which fortuitously bound filamentous phage in M13mp8 (Messing and Vieira, Gene 19: 262-276 (1982), which is incorporated herein by reference) was chosen because it carries two amber stop codons, which ensure that the few phage surviving irradiation will not grow in the sup O strains used to titer the surface expression libraries. A 5 ml sample containing 5  $\times$  10<sup>13</sup> 30 M13mp8 phage, purified as described above, was placed in a small petri plate and irradiated with a germicidal lamp at a distance of two feet for 7 minutes (flux 150  $\mu W/cm^2$ ). NaN3 was added to 0.02% and phage particles concentrated to particles/ml on a Centricon 30-kDa ultrafilter (Amicon).

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For panning, polystyrene petri plates (60 x 15 mm, Falcon; Becton Dickinson, Lincoln Park, NJ) are incubated with 1 ml of 1 mg/ml of streptavidin (BMB) in 0.1 M NaHCO<sub>3</sub> pH 8.6-0.02% NaN<sub>3</sub> in a small, air-tight plastic box overnight in a cold room. The next day streptavidin is removed and replaced with at least 10 ml blocking solution (29 mg/ml of BSA; 3 μg/ml of streptavidin; 0.1 M NaHCO<sub>3</sub> pH 8.6-0.02% NaN<sub>3</sub>) and incubated at least 1 hour at room temperature. The blocking solution is removed and plates are washed rapidly three times with Tris buffered saline containing 0.5% Tween 20 (TBS-0.5% Tween 20).

Selection of phage expressing peptides bound by the ligand binding proteins is performed with 5  $\mu$ l (2.7  $\mu$ g ligand binding protein) of blocked biotinylated ligand 15 binding proteins reacted with a 50  $\mu$ l portion of each library. Each mixture is incubated overnight at 4°C, diluted with 1 ml TBS-0.5% Tween 20, and transferred to a streptavidin-coated petri plate prepared as described After rocking 10 minutes at room temperature, 20 unbound phage are removed and plates washed ten times with TBS-0.5% Tween 20 over a period of 30-90 minutes. Bound phage are eluted from plates with 800  $\mu$ l sterile elution buffer (1 mg/ml BSA, 0.1 M HCl, pH adjusted to 2.2 with glycerol) for 15 minutes and eluates neutralized with 48  $\mu$ l 25 2 M Tris (pH unadjusted). A 20  $\mu$ l portion of each eluate is titered on MK30-3 concentrated cells with dilutions of input phage.

A second round of panning is performed by treating 750  $\mu$ l of first eluate from each library with 5 mM DTT for 10 minutes to break disulfide bonds linking biotin groups to residual biotinylated binding proteins. The treated eluate is concentrated on a Centricon 30 ultrafilter (Amicon), washed three times with TBS-0.5% Tween 20, and concentrated to a final volume of about 50  $\mu$ l. Final retentate is transferred to a tube containing 5.0  $\mu$ l (2.7  $\mu$ g ligand

binding protein) blocked biotinylated ligand binding proteins and incubated overnight. The solution is diluted with 1 ml TBS-0.5% Tween 20, panned, and eluted as described above on fresh streptavidin-coated petri plates. The entire second eluate (800  $\mu$ l) is neutralized with 48  $\mu$ l 2 M Tris, and 20  $\mu$ l is titered simultaneously with the first eluate and dilutions of the input phage.

Individual phage populations are purified through 2 to 3 rounds of plaque purification. Briefly, the second 10 eluate titer plates are lifted with nitrocellulose filters (Schleicher & Schuell, Inc., Keene, NH) and processed by washing for 15 minutes in TBS (10 mM Tris-HCl, pH 7.2, 150 mM NaCl), followed by an incubation with shaking for an additional 1 hour at 37°C with TBS containing 5% nonfat dry milk (TBS-5% NDM) at 0.5 ml/cm2. The wash is discarded and fresh TBS-5% NDM is added (0.1 ml/cm2) containing the ligand binding protein between 1 nM to 100 mM, preferably between 1 to 100  $\mu$ M. All incubations are carried out in heatsealable pouches (Sears). Incubation with the ligand binding protein proceeds for 12-16 hours at 4°C with shaking. The filters are removed from the bags and washed 3 times for 30 minutes at room temperature with 150 mls of TBS containing 0.1% NDM and 0.2% NP-40 (Sigma, St. Louis, The filters are then incubated for 2 hours at room temperature in antiserum against the ligand binding protein at an appropriate dilution in TBS-0.5% NDM, washed in 3 changes of TBS containing 0.1% NDM and 0.2% NP-40 as described above and incubated in TBS containing 0.1% NDM and 0.2% NP-40 with 1  $\times$  10<sup>6</sup> cpm of  $^{125}$ I-labeled Protein A 30 (specific activity = 2.1 x  $10^7$  cpm/ $\mu$ g). After a washing with TBS containing 0.1% NDM and 0.2% NP-40 as described above, the filters are wrapped in Saran Wrap and exposed to Kodak X-Omat x-ray film (Kodak, Rochester, NY) for 1-12 Dupont Cronex Lightning at -70°C using 35 Intensifying Screens (Dupont, Willmington, DE).

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Positive plaques identified are cored with the large end of a pasteur pipet and placed into 1 ml of SM (5.8 g NaCl, 2 g MgS0 $_4$ ·7H $_2$ 0, 50 ml 1 M Tris-HCl, pH 7.5, 5 mls 2% gelatin, to 1000 mls with  $dH_20$ ) plus 1-3 drops of CHCl3 and 5 incubated at 37°C 2-3 hours or overnight at 4°C. The phage are diluted 1:500 in SM and 2  $\mu l$  are added to 300  $\mu l$  of XL1 cells plus 3 mls of soft agar per 100 mm<sup>2</sup> plate. cells are prepared for plating by growing a colony overnight in 10 ml LB (10 g bacto-tryptone, 5 g bacto-yeast extract, 10 g NaCl, 1000 ml  $dH_20$ ) containing 100  $\mu$ l of 20% 10 maltose and 100  $\mu$ l of 1 M MgSO<sub>4</sub>. The bacteria are pelletted by centrifugation at 2000 xg for 10 minutes and the pellet is resuspended gently in 10 mls of 10 mM MgSO4. suspension is diluted 4-fold by adding 30 mls of 10 mM MgS0 $_{4}$ 15 to give an  $OD_{600}$  of approximately 0.5. The second and third round screens are identical to that described above except that the plaques are cored with the small end of a pasteur pipet and placed into 0.5 mls SM plus a drop of CHCl3 and 1- $5~\mu l$  of the phage following incubation are used for plating At the end of the third round of without dilution. 20 purification, an individual plaque is picked and the templates prepared for sequencing.

## Template Preparation and Sequencing

Templates are prepared for sequencing by inoculating a 1 ml culture of 2XYT containing a 1:100 dilution of an overnight culture of XL1 with an individual plaque. plaques are picked using a sterile toothpick. The culture is incubated at 37°C for 5-6 hours with shaking and then 200 µl of PEG transferred to a 1.5 ml microfuge tube. 30 solution is added, followed by vortexing and placed on ice The phage precipitate is recovered by for 10 minutes. centrifugation in a microfuge at 12,000 x g for 5 minutes. The supernatant is discarded and the pellet is resuspended in 230  $\mu$ l of TE (10 mM Tris-HCl, pH 7.5, 1 mM EDTA) by gently pipeting with a yellow pipet tip. Phenol (200  $\mu$ l)

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is added, followed by a brief vortex and microfuged to separate the phases. The aqueous phase is transferred to extracted with 200 tube and a separate phenol/chloroform (1.1) as described above for the phenol 5 extraction. A 0.1 volume of 3 M NaOAc is added, followed by addition of 2.5 volumes of ethanol and precipated at The precipated templates are -20°C for 20 minutes. recovered by centrifugation in a microfuge at 12,000 x g for 8 minutes. The pellet is washed in 70% ethanol, dried 10 and resuspended in 25  $\mu l$  TE. Sequencing was performed using a Sequenase sequencing kit following the protocol supplied by the manufacturer (U.S. Biochemical, Cleveland, OH).

#### EXAMPLE II

## Isolation and Characterization of Peptide Ligands Generated From Oligonucleotides Having Random Codons at Two Predetermined Positions

This example shows the generation of a surface expression library from a population of oligonucleotides 20 having randomized codons. The oligonucleotides are ten codons in length and are cloned into a single vector species for the generation of a M13 gene VIII-based surface expression library. The example also shows the selection protein binding ligand peptides for a of characterization of their encoded nucleic acid sequences.

### Oligonucleotide Synthesis

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Oligonucleotides were synthesized as described in Example I. The synthesizer was programmed to synthesize These sequences the sequences shown in Table IX. 30 correspond to the first random codon position synthesized and 3' flanking sequences of the oligonucleotide which hybridizes to the leader sequence in the vector.

complementary sequences are used for insertional mutagenesis of the synthesized population of oligonucleotides.

#### Table IX

5	Column	Sequence (5' to 3')
	column 1	AA(A/C)GGTTGGTCGGTACCGG
	column 2	AG(A/G)GGTTGGTCGGTACCGG
	column 3	AT(A/G)GGTTGGTCGGTACCGG
	column 4	AC(A/G)GGTTGGTCGGTACCGG
10	column 5	CA(G/T)GGTTGGTCGGTACCGG
	column 6	CT(G/C)GGTTGGTCGGTACCGG
	column 7	AG(T/C)GGTTGGTCGGTACCGG
	column 8	AT(T/C)GGTTGGTCGGTACCGG
	column 9	CC(A/C)GGTTGGTCGGTACCGG
15	column 10	$\mathtt{T}(\mathtt{A}/\mathtt{T})\mathtt{TGGTTGGTCGGTACCGG}$

The next eight random codon positions were synthesized as described for Table V in Example I. Following the ninth position synthesis, the reaction products were once more combined, mixed and redistributed into 10 new reaction columns. Synthesis of the last random codon position and 5' flanking sequences are shown in Table X.

#### Table X

	Column	Sequence (5' to 3')
	column 1	AGGATCCGCCGAGCTCAA (A/C) $\underline{A}$
25	column 2	AGGATCCGCCGAGCTCAG( $A/G$ ) $A$
	column 3	AGGATCCGCCGAGCTCAT(A/G) $\underline{A}$
	column 4	AGGATCCGCCGAGCTCAC(A/G) $\underline{A}$
	column 5	AGGATCCGCCGAGCTCCA(G/T) $\underline{A}$
	column 6	AGGATCCGCCGAGCTCCT(G/C) $\underline{A}$
30	column 7	AGGATCCGCCGAGCTCAG( $T/C$ ) $\underline{A}$
30	column 8	AGGATCCGCCGAGCTCAT(T/C) $\underline{A}$
	column 9	AGGATCCGCCGAGCTCCC(A/C)A
	column 10	AGGATCCGCCGAGCTCT (A/T) $T\underline{A}$

The reaction products were mixed once more and the oligonucleotides cleaved and purified as recommended by the manufacturer. The purified population of oligonucleotides were used to generate a surface expression library as described below.

#### Vector Construction

The vector used for generating surface expression libraries from a single oligonucleotide population (i.e., without joining together of right and left half oligonucleotides) is described below. The vector is a M13-based expression vector which directs the synthesis of gene VIII-peptide fusion proteins (Figure 4). This vector exhibits all the functions that the combined right and left half vectors of Example I exhibit.

An M13-based vector was constructed for the cloning 15 populations of surface expression of oligonucleotides (Figure 4, M13IX30), M13mp19 (Pharmacia) was the starting vector. This vector was modified to contain, in addition to the encoded wild type M13 gene 20 VIII: (1) a pseudo-wild type gene, gene VIII sequence with an amber stop codon placed between it and the restriction sites for cloning oligonucleotides; (2) Stu I, Spe I and Xho I restriction sites in frame with the pseudo-wild type gVIII for cloning oligonucleotides; (3) sequences necessary 25 for expression, such as a promoter, signal sequence and translation initiation signals; (4) various other mutations to remove redundant restriction sites and the amino terminal portion of Lac Z.

Construction of M13IX30 was performed in four steps.

In the first step, a precursor vector containing the pseudo gene VIII and various other mutations was constructed, M13IX01F. The second step involved the construction of a small cloning site in a separate M13mp18 vector to yield

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In the third step, expression sequences and cloning sites were constructed in M13IX03 to generate the intermediate vector M13IX04B. The fourth step involved the incorporation of the newly constructed sequences from the 5 intermediate vector into M13IX01F to yield M13IX30. Incorporation of these sequences linked them with the pseudo gene VIII.

Construction of the precursor vector M13IX01F was similar to that of M13IX42 described in Example I except 10 for the following features: (1) M13mp19 was used as the starting vector; (2) the Fok I site 5' to the unique Eco RI site was not incorporated and the overhang at the naturally occurring Fok I site at position 3547 was not changed to 5'-CTTC-3'; (3) the spacer sequence was not incorporated between the Eco RI and Sac I sites; and (4) the amber codon at position 4492 was not incorporated.

In the second step, Ml3mp18 was mutated to remove the 5' end of Lac Z up to the Lac i binding site and including Lac Z ribosome binding site and start codon. 20 Additionally, the polylinker was removed and a Mlu I site was introduced in the coding region of Lac Z. A single oligonucleotide was used for these mutagenesis and had the sequence "5'-AAACGACGGCCAGTGCCAAGTGACGCGTGTGAAATTGTTATCC-3'" (SEQ ID NO: 41). Restriction enzyme sites for Hind III and Eco RI were introduced downstream of the MluI site 25 oligonucleotide the using GGCGAAAGGGAATTCTGCAAGGCGATTAAGCTTGGGTAACGCC-3'" (SEQ ID NO: 42). These modifications of M13mp18 yielded the vector M13IX03.

The expression sequences and cloning sites were 30 introduced into M13IX03 by chemically synthesizing a series of oligonucleotides which encode both strands of the desired sequence. The oligonucleotides are presented in Table XI (SEQ ID NOS: 43 through 50).

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TABLE XI
M13IX30 Oligonucleotide Series

	Top Strand Oligonucleotides	Sequence (5' to 3')
5	084	GGCGTTACCCAAGCTTTGTACATGGAGAAAATAAAG
	027	TGAAACAAAGCACTATTGCACTGGCACTCTTACCGT TACCGT
	028	TACTGTTTACCCCTGTGACAAAAGCCGCCCAGGTCC AGCTGC
10	029	TCGAGTCAGGCCTATTGTGCCCAGGGATTGTACTAG TGGATCCG
	Bottom Oligonucleotides	Sequence (5' to 3')
	085	TGGCGAAAGGGAATTCGGATCCACTAGTACAATCCCTG
15	031	GGCACAATAGGCCTGACTCGAGCAGCTGGACCAGGGCG GCTT
	032	TTGTCACAGGGGTAAACAGTAACGGTAACGGTAAGTGT GCCA
20	033	GTGCAATAGTGCTTTGTTTCACTTTATTTTCTCCATGT ACAA

The above oligonucleotides except for the terminal oligonucleotides 084 (SEQ ID NO: 43) and 085 (SEQ ID NO: 47) of Table XI were mixed, phosphorylated, annealed and ligated to form a double stranded insert as described in 25 Example I. However, instead of cloning directly into the intermediate vector the insert was first amplified by PCR using the terminal oligonucleotides 084 (SEQ ID NO: 43) and The terminal (SEQ ID NO: 47) as primers. oligonucleotide 084 (SEQ ID NO: 43) contains a Hind III its nucleotides internal to 30 site Oligonucleotide 085 (SEQ ID NO: 47) has an Eco RI site at Following amplification, the products were its 5' end. restricted with Hind III and Eco RI and ligated as described in Example I into the polylinker of M13mp18 WO 92/06176 PCT/US91/07141

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digested with the same two enzymes. The resultant double stranded insert contained a ribosome binding site, a translation initiation codon followed by a leader sequence and three restriction enzyme sites for cloning random oligonucleotides (Xho I, Stu I, Spe I). The vector was named M13IX04.

During cloning of the double-stranded insert, it was found that one of the GCC codons in oligonucleotides 028 and its complement in 031 was deleted. Since this deletion did not affect function, the final construct is missing one of the two GCC codons. Additionally, oligonucleotide 032 contained a GTG codon where a GAG codon was needed. Mutagenesis was performed using the oligonucleotide 5'-TAACGGTAAGAGTGCCAGTGC-3' (SEQ ID NO: 51) to convert the codon to the desired sequence. The resultant intermediate vector was named M13IX04B.

The fourth step in constructing M13IX30 involved inserting the expression and cloning sequences from M13IX04B upstream of the pseudo-wild type gVIII in M13IX01F. This was accomplished by digesting M13IX04B with Dra III and Ban HI and gel isolating the 700 base pair insert containing the sequences of interest. M13IX01F was likewise digested with Dra III and Bam HI. The insert was combined with the double digested vector at a molar ratio of 3:1 and ligated as described in Example I. It should be noted that all modifications in the vectors described herein were confirmed by sequence analysis. The sequence of the final construct, M13IX30, is shown in Figure 7 (SEQ ID NO: 3). Figure 4 also shows M13IX30 where each of the elements necessary for surface expression of randomized oligonucleotides is marked.

## Library Construction, Screening and Characterization of Encoded Oligonucleotides

is accomplished identically to that described in Example I for sublibrary construction except the oligonucleotides described above are inserted into M13IX30 by mutagenesis instead of by ligation. The library is constructed and propagated on MK30-3 (BMB) and phage stocks are prepared for infection of XLI cells and screening. The surface expression library is screened and encoding oligonucleotides characterized as described in Example I.

#### EXAMPLE III

# Isolation and Characterization of Peptide Ligands Generated from Right and Left Half Degenerate Oligonucleotides

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This example shows the construction and expression of a surface expression library of degenerate oligonucleotides. The encoded peptides of this example derive from the mixing and joining together of two separate oligonucleotide populations. Also demonstrated is the isolation and characterization of peptide ligands and their corresponding nucleotide sequence for specific binding proteins.

## Synthesis of Oligonucleotide Populations

25 A population of left half degenerate oligonucleotides and a population of right half degenerate oligonucleotides was synthesized using standard automated procedures as described in Example I.

The degenerate codon sequences for each population of oligonucleotides were generated by sequentially

synthesizing the triplet NNG/T where N is an equal mixture of all four nucleotides. The antisense sequence for each population of oligonucleotides was synthesized and each population contained 5' and 3' flanking sequences complementary to the vector sequence. The complementary termini was used to incorporate each population of oligonucleotides into their respective vectors by standard mutagenesis procedures. Such procedures have been described previously in Example I and in the Detailed Description. Synthesis of the antisense sequence of each population was necessary since the single-stranded form of the vectors are obtained only as the sense strand.

The left half oligonucleotide population was

synthesized having the following sequence: 5'AGCTCCCGGATGCCTCAGAAGATG(A/CNN),GGCTTTTGCCACAGGGG-3' (SEQ
ID NO: 52). The right half oligonucleotide population
was synthesized having the following sequence: 5'CAGCCTCGGATCCGCC(A/CNN), ATG(A/C)GAAT-3' (SEQ ID NO. 53).

These two oligonucleotide populations when incorporated into their respective vectors and joined together encode a 20 codon oligonucleotide having 19 degenerate positions and an internal predetermined codon sequence.

#### Vector Construction

Modified forms of the previously described vectors were used for the construction of right and left half sublibraries. The construction of left half sublibraries was performed in an M13-based vector termed M13ED03. This vector is a modified form of the previously described M13IX30 vector and contains all the essential features of both M13IX30 and M13IX22. M13ED03 contains, in addition to a wild type and a pseudo-wild type gene VIII, sequences necessary for expression and two Fok I sites for joining with a right half oligonucleotide

sublibrary. Therefore, this vector combines the advantages of both previous vectors in that it can be used for the generation and expression of surface expression libraries from a single oligonucleotide population or it can be joined with a sublibrary to bring together right and left half oligonucleotide populations into a surface expression library.

M13ED03 was constructed in two steps from M13IX30.

The first step involved the modification of M13IX30 to

remove a redundant sequence and to incorporate a sequence encoding the eight amino-terminal residues of human \$\beta\$
endorphin. The leader sequence was also mutated to increase secretion of the product.

During construction of M13IX04 (an intermediate

vector to M13IX30 which is described in Example II), a

six nucleotide sequence was duplicated in oligonucleotide

027 (SEQ ID NO: 44) and its complement 032 (SEQ ID NO:

49). This sequence, 5'-TTACCG-3', was deleted by

mutagenesis in the construction of M13ED01. The

oligonucleotide used for the mutagenesis was 5'
GGTAAACAGTAACGGTAAGAGTGCCAG-3' (SEQ ID NO: 54). The

mutation in the leader sequence was generated using the

oligonucleotide 5'-GGGCTTTTGCCACAGGGGT-3' (SEQ ID NO:

55). This mutagenesis resulted in the A residue at

position 6353 of M13IX30 being changed to a G residue.

The resultant vector was designated M13IX32.

To generate M13ED01, the nucleotide sequence encoding B-endorphin (8 amino acid residues of B-endorphin plus 3 extra amino acid residues) was incorporated after the leader sequence by mutagenesis. The oligonucleotide used had the following sequence: 5'-AGGGTCATCGCCTTCAGCTCCGGATCCCTCAGAAGTCATAAACCCCCCATAGGC TTTTGCCAC-3' (SEQ ID NO: 56). This mutagenesis also removed some of the downstream sequences through the Spe

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I site.

The second step in the construction of M13EDC3
involved vector changes which put the β-endorphin
sequence in frame with the downstream pseudo-gene VIII
sequence and incorporated a Fok I site for joining with a
sublibrary of right half oligonucleotides. This vector
was designed to incorporate oligonucleotide populations
by mutagenesis using sequences complementary to those
flanking or overlapping with the encoded β-endorphin
sequence. The absence of β-endorphin expression after
mutagenesis can therefore be used to measure the
mutagenesis frequency. In addition to the above vector
changes, M13EDO3 was also modified to contain an amber
codon at position 3262 for biological selection during
joining of right and left half sublibraries.

The mutations were incorporated using standard mutagenesis procedures as described in Example I. The frame shift changes and Fok I site were generated using the oligonucleotide 5'-

ID NO: 57). The amber codon was generated using the oligonucleotide 5'-CAATTTTATCCTAAATCTTACCAAC-3' (SEQ ID NO: 58). The full sequence of the resultant vector, M13ED03, is provided in Figure 8 (SEQ ID NO: 4).

25 The construction of right half oligonucleotide sublibraries was performed in a modified form of the M13IX42 vector. The new vector, M13IX421, is identical to M13IX42 except that the amber codon between the Eco RI-SacI cloning site and the pseudo-gene VIII sequence was removed. This change ensures that all expression off of the Lac Z promoter produces a peptide-gene VIII fusion protein. Removal of the amber codon was performed by mutagenesis using the following oligonucleotide: 5'-GCCTTCAGCCTCGGATCCGCC-3' (SEQ ID NO: 59). The full

sequence of M13IX421 is shown in Figure 9 (SEQ ID NO: 5).

Library Construction, Screening and Characterization of Encoded Oligonucleotides

A sublibrary was constructed for each of the 5 previously described degenerate populations of oligonucleotides. The left half population of oligonucleotides was incorporated into M13ED03 to generate the sublibrary M13ED03.L and the right half population of oligonucleotides was incorporated into 10 M13IX421 to generate the sublibrary M13IX421.R. Each of the oligonucleotide populations were incorporated into their respective vectors using site-directed mutagenesis as described in Example I. Briefly, the nucleotide sequences flanking the degenerate codon sequences were 15 complementary to the vector at the site of incorporation. The populations of nucleotides were hybridized to singlestranded M13ED03 or M13IX421 vectors and extended with T4 DNA polymerase to generate a double-stranded circular vector. Mutant templates were obtained by uridine 20 selection in vivo, as described by Kunkel et al., supra. Each of the vector populations were electroporated into host cells and propagated as described in Example I.

The random joining of right and left half sublibraries into a single surface expression library was accomplished as described in Example I except that prior to digesting each vector population with Fok I they were first digested with an enzyme that cuts in the unwanted portion of each vector. Briefly, M13ED03.L was digested with Bgl II (cuts at 7094) and M13IX421.R was digested with Hind III (cuts at 3919). Each of the digested populations were further treated with alkaline phosphatase to ensure that the ends would not religate and then digested with an excess of Fok I. Ligations, electroporation and propagation of the resultant library

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was performed as described in Example I.

The surface expression library was screened for ligand binding proteins using a modified panning 5 procedure. Briefly, 1 ml of the library, about 10<sup>12</sup> phage particles, was added to 1-5  $\mu g$  of the ligand binding protein. The ligand binding protein was either an antibody or receptor globulin (Rg) molecule, Aruffo et al., Cell 61:1303-1313 (1990), which is incorporated 10 herein by reference. Phage were incubated shaking with affinity ligand at room temperature for 1 to 3 hours followed by the addition of 200  $\mu l$  of latex beads (Biosite, San Diego, CA) which were coated with goatantimouse IgG. This mixture was incubated shaking for an 15 additional 1-2 hours at room temperature. Beads were pelleted for 2 minutes by centrifugation in a microfuge and washed with TBS which can contain 0.1% Tween 20. Three additional washes were performed where the last wash did not contain any Tween 20. The bound phage were 20 then eluted with 200  $\mu$ l 0.1 M Glycine-HCl, pH 2.2 for 15 minutes and the beads were spun down by centrifugation. The supernatant-containing phage (eluate) was removed and phage exhibiting binding to the ligand binding protein were further enriched by one-to-two more cycles of 25 panning. Typical yields after the first eluate were about 1  $\times$  10<sup>6</sup> - 5  $\times$  10<sup>6</sup> pfu. The second and third eluate generally yielded about 5 x  $10^6$  - 2 x  $10^7$  pfu and 5 x  $10^7 - 1 \times 10^{10}$  pfu, respectively.

The second or third eluate was plated at a suitable

density for plaque identification screening and
sequencing of positive clones (i.e., plated at confluency
for rare clones and 200-500 plaques/plate if pure plaques
were needed). Briefly, plaques grown for about 6 hours
at 37°C and were overlaid with nitrocellulose filters

that had been soaked in 2 mm IPTG and then briefly dried.
The filters remained on the plaques overnight at room

temperature, removed and placed in blocking solution for 1-2 hours. Following blocking, the filters were incubated in 1  $\mu$ g/ml ligand binding protein in blocking solution for 1-2 hours at room temperature. Goat antimouse Ig-coupled alkaline phosphatase (Fisher) was added at a 1:1000 dilution and the filters were rapidly washed with 10 mls of TBS or block solution over a glass vacuum filter. Positive plaques were identified after alkaline phosphatase development for detection.

with several different ligand binding proteins resulted in the identification of peptide sequences which bound to each of the ligands. For example, screening with an antibody to 8-endorphin resulted in the detection of about 30-40 different clones which essentially all had the core amino acid sequence known to interact with the antibody. The sequences flanking the core sequences were different showing that they \*ere independently derived and not duplicates of the same clone. Screening with an antibody known as 57 gave similar results (i.e., a core consensus sequence was identified but the flanking sequences among the clones were different).

#### EXAMPLE IV

## Generation of a Left Half Random Oligonucleotide Library

This example shows the synthesis and construction of a left half random oligonucleotide library.

A population of random oligonucleotides nine codons in length was synthesized as described in Example I except that different sequences at their 5' and 3' ends were synthesized so that they could be easily inserted into the vector by mutagenesis. Also, the mixing and dividing steps for generating random distributions of

reaction products was performed by the alternative method of dispensing equal volumes of bead suspensions. The liquid chosen that was dense enough for the beads to remain dispersed was 100% acetonitrile.

Briefly, each column was prepared for the first coupling reaction by suspending 22 mg (1µmole) of 48 µmol/g capacity beads (Genta, San Diego, CA) in 0.5 mls of 100% acetonitrile. These beads are smaller than those described in Example I and are derivatized with a guanine nucleotide. They also do not have a controlled pore size. The bead suspension was then transferred to an empty reaction column. Suspensions were kept relatively dispersed by gently pipetting the suspension during transfer. Columns were plugged and monomer coupling reactions were performed as shown in Table XII.

#### Table XII

	Column	Sequence (5' to 3')
	column 1L	AA(A/C)GGCTTTTGCCACAGG
20	column 2L	$\mathtt{AG}\left(\mathtt{A/G}\right)\mathtt{GGCTTTTGCCACAGG}$
	column 3L	AT(A/G)GGCTTTTGCCACAGG
	column 4L	AC(A/G)GGCTTTTGCCACAGG
	column 5L	CA(G/T)GGCTTTTGCCACAGG
	column 6L	CT(G/C)GGCTTTTGCCACAGG
25	column 7L	AG (T/C) GGCTTTTGCCACAGG
	column 8L	AT $(T/C)$ GGCTTTTGCCACAGG
	column 9L	CC(A/C)GGCTTTTGCCACAGG
	column 10L	T(A/T)TGGCTTTTGCCACAGG

After coupling of the last monomer, the columns were unplugged as described previously and their contents were poured into a 1.5 ml microfuge tube. The columns were rinsed with 100% acetonitrile to recover any remaining beads. The volume used for rinsing was determined so

that the final volume of total bead suspension was about 100 \$\mu 1\$ for each new reaction column that the beads would be aliquoted into. The mixture was vortexed gently to produce a uniformly dispersed suspension and then divided, with constant pipetting of the mixture, into equal volumes. Each mixture of beads was then transferred to an empty reaction column. The empty tubes were washed with a small volume of 100% acetonitrile and also transferred to their respective columns. Random codon positions 2 through 9 were then synthesized as described in Example I where the mixing and dividing steps were performed using a suspension in 100% acetonitrile. The coupling reactions for codon positions 2 through 9 are shown in Table XIII.

15			Table XIII
	Column		Sequence (5' to 3')
	column	1L	AA (A/C) <u>A</u>
	column	2L	AG(A/G) <u>A</u>
20	column	3L	AT(A/G) <u>A</u>
	column	4L	AC(A/G)A
	column	5L	$CA(G/T)\underline{A}$
	column	6L	CT (G/C) <u>A</u>
	column	7L	$AG(T/C)\underline{A}$
25	column	8L	AT (T/C) <u>A</u>
	column	9L	CC(A/C)
	column	10L	$T(A/T)T\underline{A}$

After coupling of the last monomer for the ninth codon position, the reaction products were mixed and a portion was transferred to an empty reaction column. Columns were plugged and the following monomer coupling reactions were performed: 5'-CGGATGCCTCAGAAGCCCCXXA-3' (SEQ ID NO: 60). The resulting population of random oligonucleotides was purified and incorporated by

mutagenesis into the left half vector M13ED04.

M13ED04 is a modified version of the M13ED03 vector described in Example III and therefore contains all the features of that vector. The difference between M13ED03 and M13ED04 is that M13ED04 does not contain the five amino acid sequence (Tyr Gly Gly Phe Met) recognized by anti-B-endorphin antibody. This sequence was deleted by mutagenesis using the oligonucleotide 5'-CGGATGCCTCAGAAGGGCTTTTGCCACAGG (SEQ ID NO: 61). The entire nucleotide sequence of this vector is shown in Figure 10 (SEQ ID NO: 6).

Although the invention has been described with reference to the presently preferred embodiment, it should be understood that various modifications can be made without departing from the spirit of the invention. Accordingly, the invention is limited only by the claims.

#### SEQUENCE LISTING

(1) GENERAL INFORMATION:	
(i) APPLICANT: Huse, William D.	
(ii) TITLE OF INVENTION: SURFACE EXPRESSION LIBRARIES OF RANDOMIZED PEPTIDES	
(iii) NUMBER OF SEQUENCES: 61	
<ul> <li>(iv) CORRESPONDENCE ADDRESS:</li> <li>(A) ADDRESSEE: Pretty, Schroeder, Brueggemann &amp; Clark</li> <li>(B) STREET: 444 South Flower Street, Suite 2000</li> <li>(C) CITY: Los Angeles</li> <li>(D) STATE: California</li> <li>(E) COUNTRY: United States</li> <li>(F) ZIP: 90071</li> </ul>	
<ul> <li>(v) COMPUTER READABLE FORM:         <ul> <li>(A) MEDIUM TYPE: Floppy disk</li> <li>(B) COMPUTER: IBM PC compatible</li> <li>(C) OPERATING SYSTEM: PC-DOS/MS-DOS</li> <li>(D) SOFTWARE: Patentin Release #1.0, Version #1.25</li> </ul> </li> </ul>	
<pre>(vi) CURRENT APPLICATION DATA:     (A) APPLICATION NUMBER:     (B) FILING DATE:     (C) CLASSIFICATION:</pre>	
(viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Campbell, Cachryn A  (B) REGISTRATION NUMBER: 31,815  (C) REFERENCE/DOCKET NUMBER: P31 9072	
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(2) INFORMATION FOR SEQ ID NO:1:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 7294 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: both  (D) TOPOLOGY: circular	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
AATGCTACTA CTATTAGTAG AATTGATGCC ACCTTTTCAG CTCGCGCCCC AAATGAAAAT	60
ATAGCTAAAC AGGTTATTGA CCATTTGCGA AATGTATCTA ATGGTCAAAC TAAATCTACT	120
CGTTCGCAGA ATTGGGAATC AACTGTTACA TGGAATGAAA CTTCCAGACA CCGTACTTTA	180
GTTGCATATT TAAAACATGT TGAGCTACAG CACCAGATTC AGCAATTAAG CTCTAAGCCA	240
TCTGCAAAAA TGACCTCTTA TCAAAAGGAG CAATTAAAGG TACTCTCTAA TCCTGACCTG	300
TTGGAGTTTG CTTCCGGTCT GGTTCGCTTT GAAGCTCGAA TTAAAACGCG ATATTTGAAG	360

TCTTTCGGGC TTCCTCTTAA TCTTTTTGAT GCAATCCGCT TTGCTTCTGA CTATAATAGT

CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	480
TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTICITITE	CAAAAGCCTC	TCGCTATTTT	600
GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
AATTCCTTTT						720
ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
TCTTCCCAAC						840
CAATGATTAA						900
CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
TGTACACCGT						1080
GTCTGCGCCT						1140
CAGGCGATGA						1200
CAAAGATGAG						1260
GTGGCATTAC						1320
				TCTTTCGCTG		1380
				GCGACCGAAT		1440
				GGTATCAAGC		1500
				GGCTCCTTTT		1560
				TTCCTTTAGT		1620
TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
					TGAGGGTTGT	1740
					TTACGGTACA	1800
					GGGTGGCGGT	1860
					TGATACACCT	1920
ATTCCGGGCT	ATACTTATA	CAACCCTCT	GACGGCACT	I ATCCCCCTCC	TACTGAGCAA	1980
AACCCCGCTA	ATCCTAATC	C TICTCTTGA	G GAGTCTCAG	C CTCTTAATA	C TITCATGTTT	2040
CAGAATAATA	A GGTTCCGAA	A TAGGCAGGG	G GCATTAACT	G TTTATACGG	G CACTGTTACT	2100
CAAGGCACT	G ACCCCGTTA	A AACTTATTA	C CAGTACACT	C CTGTATCAT	C AAAAGCCATG	2160
					G CTTTAATGAA	2220
					C TCCTGTCAAT	2280
					G CTCTGAGGGT	2340
					IC TGGTTCCGGT	2400
GATTTTGAT	TT ATGAAAAG	AT GGCAAACG	CT AATAAGGG	GG CTATGACC	GA AAATGCCGAT	2460

GAAAACGCG	C TACAGTCTG	A CGCTAAAGG	C AAACTTGAT	r ctgtcgcta	C TGATTACGGT	252C
GCTGCTATC	G ATGGTTTCA	r TGGTGACGT	T TCCGGCCTT	G CTAATGGTA	A TGGTGCTACT	2580
GGTGATTTT	G CTGGCTCTA	A TTCCCAAAT	G GCTCAAGTC	G GTGACGGTG	A TAATTCACCT	2640
TTAATGAATA	A ATTTCCGTC	A ATAITTACC	T TCCCTCCCT	C AATCGGTTGA	A ATGTCGCCCT	2700
TTTGTCTTT	A GCGCTGGTA	ACCATATGA	A TTTTCTATTC	ATTGTGACA	AATAAACTTA	2760
TTCCGTGGTG	G TCTTTGCGTT	TCTTTTATA	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880
TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000 -
GGCTTAACTC	AATTCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
TTGTTCAGGG	TGTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTIGCTIG	CTATTGGGCG	CGGTAATGAT	3420
TCCTACGATG	AAAATAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
AAATTAGGAT	GGGATATTAT	CTTCCTTCTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600
CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT	3660
				TGCCTCTGCC		3720
GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TIGGCTTTAT	3780
				CTITTTCTAG		3840
				GTCGGTATTT		3900
				AAAAGTTTTC		3960
				ATATAACCCA		4020
				AATTCACTAT		4080
				CTAAGGGAAA		4140
				TTGATTTATG		4200
				ATTTTGTTTT		4260
				ATTCGCCTCT		4320
				TTTCTCCCGA		4380
				TACGCAATTT		4440
GTTTTACGTG	CTAATAATTT	TGATATGGTT	GGTTCAATTC	CTTCCATTAT	TTAGAAGTAT	4500

THE COLUMN TO TH	560
AATCCAAACA ATCAGGATTA TATTGATGAA TTGCCATCAT CTGATAATCA GGAATATGAT 4	÷620
GATAATTCCG CTCCTTCTGG TGGTTTCTTT GTTCCGCAAA ATGATAATGT TACTGAAACT	4680
GATAATTCCG CTCCTTCTGG TGGTCTAAAG  TTTAAAAATTA ATAACGTTCG GGCAAAGGAT TTAATACGAG TTGTCGAATT GTTTGTAAAG  TTTAAAAATTA ATAACGTTCG GGCAAAGGAT TTAATACGAG TTGTCGAATT ATTAGTTGTT	4740
TTTAAAATTA ATAACGITCG GOODSTATTA TCTATTGACG GCTCTAATCT ATTAGTTGTT  TCTAATACTT CTAAATCCTC AAATGTATTA TCTATTGACG GCTCTAATCT ATTAGTTGTC	4800
AGTGCACCTA AAGATATTTT AGATAACCTT CCTCAATTCC TTTCTACTGT TGATTTGCCA	4860
ACTGACCAGA TATTGATTGA GGGTTTGATA TTTGAGGTTC AGCAAGGTGA TGCTTTAGAT  ACTGACCAGA TATTGATTGA GGGTTTGATA TTTGAGGTTC AGCAAGGTGA TACTGACCGC	4920
ACTGACCAGA TATTGATTGA GOODE ACTGTTGCAG GCGGTGTTAA TACTGACCGC TTTTCATTTG CTGCTGGCTC TCAGCGTGGC ACTGTTGCAG GCGGTGTTAA TACTGACCGC	4980
CTCACCTCTG TTTTATCTTC TGCTGGTGGT TCGTTCGGTA TTTTTAATGG CGATGTTTTA	5040
GGGCTATCAG TTCGCGCATT AAAGACTAAT AGCCATTCAA AAATATTGTC TGTGCCACGT	5100
ATTCTTACGC TTTCAGGTCA GAAGGGTTCT ATCTCTGTTG GCCAGAATGT CCCTTTTATT  ATTCTTACGC TTTCAGGTCA GAAGGGTTCT ATCTCTGTTG GCCAGAATGT CCCTTTTATT	5160
ACTGGTCGTG TGACTGGTGA ATCTGCCAAT GTAAATAATC CATTTCAGAC GATTGAGCGT  ACTGGTCGTGGTGA ATCTGCAAT GTAAATAATC CATTTCAGAC GATTGAGCGT TAATATTGTT  ACTGGTCGTCGCG TAATATTTGTT  ACTGGTCGTGAATAATAATCAATAATCAAATAAATCAATAATCAATAATCAATAAT	5220
CAAAATGTAG GTATTTCCAT GAGCGTTTTT CCTGTTGCAA TGGCTGGCGG TAATATTGTT	5280
CAAAATGTAG GIATITOGAT GROOTS AGGICATGTATT  CTGGATATTA CCAGCAAGGC CGATAGTTIG AGTICTTCTA CTCAGGCAAG TGATGTTATT	5340
ACTAATCAAA GAAGTATTGC TACAACGGTT AATTTGCGTG ATGGACAGAC TCTTTTACTC	5400
GGTGGCCTCA CTGATTATAA AAACACTTCT CAAGATTCTG GCGTACCGTT CCTGTCTAAA	5460
ATCCCTTTAA TCGGCCTCCT GTTTAGCTCC CGCTCTGATT CCAACGAGGA AAGCACGTTA	5520
TACGTGCTCG TCAAAGCAAC CATAGTACGC GCCCTGTAGC GGCGCATTAA GCGCGGGGGGG	5580
TACGTGCTCG TCAAAGGAAC ONTHE TOTAL TACGTGCTCG TCAAAGGAAC ONTHE TOTAGTGCTGCT ACGCGCCAGC CCCCTTT CCCCGTCAAG CTCTAAATCG	5640
CGCTTCTTC CCTTCCTTTC TCGCCACGTT CGCCGGCTTT CCCCGTCAAG CTCTAAATCG	5700
GGGGCTCCCT TTAGGGTTCC GATTTAGTGC TTTACGGCAC CTCGACCCCA AAAAACTTGA	5760
TTTGGGTGAT GGTTCACGTA GTGGGCCATC GCCCTGATAG ACGGTTTTTC GCCCTTTGAC	5820
TTTGGGTGAT GGTTCACGTA GTGGGACT CTTGTTCCAA ACTGGAACAA CACTCAACCC GTTGGAGTCC ACGTTCTTTA ATAGTGGACT CTTGTTCCAA ACTGGAACA CACCATCAAA TATCTCGGGC TATTCTTTTG ATTTATAAGG GATTTTGCCG ATTTCGGAACT CTGTCAGGGC	5880
TATCTCGGGC TATTCTTTIG ATTTATARG GRITTIO	5940
CAGGCGTGA AGGGCAATCA GCTGTTGCCC GTCTCGCTGG TGAAAAGAAA AAGCACCCTG	6000
CAGGCGGTGA AGGGCAATCA GCTGTTGCCC GTGTTGGCCG ATTCATTAAT GCAGCTGGCA GCGCCCAATA CGCAAACCGC CTCTCCCCCGC GCGTTGGCCG ATTCATTAATC TGAGTTAGCT	6060
GCGCCCAATA CGCAAACCGC CICICCOGGG GOODD GOO	6120
CGACAGGTTT CCCGACTGGA AAGCGGGGAA TOMOO TOTAL GAATTCGCAG	6180
CACTCATTAG GCACCCCAGG CITTAGAGTI INTO CAGGATGTAC GAATTCGCAG TGTGAGCGGA TAACAATTTC ACACAGGAAA CAGCTATGAC CAGGATGTAC GAATTCGCAG	6240
TGTGAGCGGA TAACAATTTC ACACAGGATA GGCGATGACC CTGCTAAGGC TGCATTCAAT GTAGGAGAGC TCGGCGGATC CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT	6300
GTAGGAGAC TCGGCGGATC CTAGGCTAMT GGCTACGCTT GGGCTATGGT AGTAGTTATA AGTTTACAGG CAAGTGCTAC TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA	6360
AGTITACAGG CAAGTGCTAC TGAGTACATT COOPERAGGG TGCTAACCA GTTGGTGCTA CCATAGGGAT TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAACCA GTTGGTGCTA CCATAGGGAT TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TGCTAACCA	6420
GTTGGTGCTA CCATAGGGAT TARATTATTO TABLE CCAACAGTTG CGCAGCCTGA GCTGGCGTAA TAGCGAAGAG GCCCGCACCG ATCGCCCTTC CCAACAGTTG CGCAGCCTGG	6480
GCTGGCGTAA TAGCGAAGAG GCCGGCAGGC NIGOTA AGCTGGCTGG ATGGCGAATG GCGCTTTGCC TGGTTTCCGG CACCAGAAGC GGTGCCGGAA AGCTGGCTGG	6540
ATGCCGAATG GCGCTTTGGG TGGTTTGGG TTGGTTTGGG	

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AGTGCGATCT	TCCTGAGGC	GATACGGTC	G TCGTCCCCTC	C AAACTGGCAG	ATGCACGGTT	6600
ACGATGCGCC	CATCTACACC	AACGTAACCT	ATCCCATTA	GGTCAATCC	CCGTTTGTTC	6660
CCACGGAGAA	TCCGACGGGT	TGTTACTCG	TCACATTTAA	TGTTGATGA	AGCTGGCTAC	6720
AGGAAGGCCA	GACGCGAATT	ATTTTTGATO	GCGTTCCTAT	TGGTTAAAA	ATGAGCTGAT	6780
TTAACAAAAA	TTTAACGCGA	ATTTTAACAA	AATATTAACG	TTTACAATTT	AAATATTTGC	6840
					ATATGATTGA	6900
					TCTCAGGCAA	6960
					TTAATTTATC	7020
			TGATTTGACT			7080
			CATTGCATTT			7140
			TTCTCCCGCA			7200
			CTCTGAGGCT			7260
	TGCCTGTATG					7294

#### (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:

  (A) LENGTH: 7320 base pairs

  (B) TYPE: nucleic acid

  (C) STRANDEDNESS: both

  (D) TOPOLOGY: circular

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

<b>\</b> <i>\</i>	•		=			
AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT	60
ATAGCTAAAC	AGGTTATTGA	CCATTTGCGA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT	120
CGTTCGCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240
TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
	CTTCCGGTCT					360
	TTCCTCTTAA					420
					GTTTAAAGCA	480
	ATTCAATGAA					540
					TCGCTATTTT	600
					TATGCCTCGT	660
					ATCTCAACTG	720
					CGTAGATTTT	780
					AGGTAATTCA	840
TCTTCCCAAC	GTCCTGACTG	GIAIAAIGAG	COMGLICITA	MANIGONIA		- · ·

TARREST TOTAL TOTA	900
CAATGATTAA AGTTGAAATT AAACCATCTC AAGCCCAATT TACTACTCGT TCTGGTGTTT	960
CTCGTCAGGG CAAGCCTTAT TCACTGAATG AGCAGCTTTG TTACGTTGAT TTGGGTAATG	
AATATCCGGT TCTTGTCAAG ATTACTCTTG ATGAAGGTCA GCCAGCCTAT GCGCCTGGTC	1020
TGTACACCGT TCATCTGTCC TCTTTCAAAG TTGGTCAGTT CGGTTCCCTT ATGATTGACC	1080
GTCTGCGCCT CGTTCCGGCT AAGTAACATG GAGCAGGTCG CGGATTTCGA CACAATTTAT	1140
CAGGCGATGA TACAAATCTC CGTTGTACTT TGTTTCGCGC TTGGTATAAT CGCTGGGGGT	1200
CAAAGATGAG TGTTTTAGTG TATTCTTTCG CCTCTTTCGT TTTAGGTTGG TGCCTTCGTA	1260
GTGGCATTAC GTATTTTACC CGTTTAATGG AAACTTCCTC ATGAAAAAGT CTTTAGTCCT	1320
CAAAGCCTCT GTAGCCGTTG CTACCCTCGT TCCGATGCTG TCTTTCGCTG CTGAGGGTGA	1380
CGATCCCGCA AAAGCGGCCT TTAACTCCCT GCAAGCCTCA GCGACCGAAT ATATCGGTTA	1440
TGCGTGGGCG ATGGTTGTTG TCATTGTCGG CGCAACTATC GGTATCAAGC TGTTTAAGAA	1500
ATTCACCTCG AAAGCAAGCT GATAAACCGA TACAATTAAA GGCTCCTTTT GGAGCCTTTT	1560
TTTTTGGAGA TTTTCAACGT GAAAAAATTA TTATTCGCAA TTCCTTTAGT TGTTCCTTTC	1620
TATTCTCACT CCGCTGAAAC TGTTGAAAGT TGTTTAGCAA AACCCCATAC AGAAAATTCA	1680
TTTACTAACG TCTGGAAAGA CGACAAAACT TTAGATCGTT ACGCTAACTA TGAGGGTTGT	1740
CTGTGGAATG CTACAGGCGT TGTAGTTTGT ACTGCTGACG AAACTCAGTG TTACGGTACA	1800
TGGGTTCCTA TTGGGCTTGC TATCCCTGAA AATGAGGGTG GTGGCTCTGA GGGTGGCGGT	1860
TCTGAGGGTG GCGCTTCTGA GGGTGGCGGT ACTAAACCTC CTGAGTACGG TGATACACCT	1920
ATTCCGGGCT ATACTTATAT CAAGCCTCTC GACGGCACTT ATCCGCCTGG TACTGAGCAA	1980
AACCCCCCTA ATCCTAATCC TTCTCTTGAC GAGTCTCAGC CTCTTAATAC TTTCATGTTT	2040
CAGAATAATA GGTTCCGAAA TAGGCAGGGG GCATTAACTG TTTATACGGG CACTGTTACT	2100
CAAGGCACTG ACCCCGTTAA AACTTATTAC CAGTACACTC CTGTATCATC AAAAGCCATG	2160
TATGACGCTI ACTGGAACGG TAAATTCAGA GACTGCGCTT TCCATTCTGG CTTTAATGAA	2220
GATCCATTCG TTTGTGAATA TCAAGGCCAA TCGTCTGACC TGCCTCAACC TCCTGTCAAT	2280
GCTGGCGGCG GCTCTGGTGG TGGTTCTGGT GGCGGCTCTG AGGGTGGTGG CTCTGAGGGT	2340
GGCGGTTCTG AGGGTGGCGG CTCTGAGGGA GGCGGTTCCG GTGGTGGCTC TGGTTCCGGT	2400
GATTTTGATT ATGAAAAGAT GGCAAACGCT AATAAGGGGG CTATGACCGA AAATGCCGAT	2460
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GCTGCTATCG ATGGTTTCAT TGGTGACGTT TCCGGCCTTG CTAATGGTAA TGGTGCTACT	2580
GGTGATTTTG CTGGCTCTAA TTCCCAAATG GCTCAAGTCG GTGACGGTGA TAATTCACCT	2640
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TTTGTCTTTA GCGCTGGTAA ACCATATGAA TTTTCTATTG ATTGTGACAA AATAAACTTA	2760
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TTTGCTAACA TACTGCGTAA TAAGGAGTCT TAATCATGCC AGTTCTTTTG GGTATTCCGT	2880

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GGCTTAACTC AATTCTTGTG GGTTATCTCT CTGATATTAG CGCTCAATTA CCCTCTGACT	3060
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TCCTACGATG AAAATAAAAA CGGCTTGCTT GTTCTCGATG AGTGCGGTAC TTGGTTTAAT	3480
ACCCGTTCTT GGAATGATAA GGAAAGACAG CCGATTATTG ATTGGTTTCT ACATGCTCGT	3540
AAATTAGGAT GGGATATTAT CTTCCTTGTT CAGGACTTAT CTATTGTTGA TAAACAGGCG	3600
CGTTCTGCAT TAGCTGAACA TGTTGTTTAT TGTCGTCGTC TGGACAGAAT TACTTTACCT	3660
TTTGTCGGTA CTTTATATTC TCTTATTACT GGCTCGAAAA TGCCTCTGCC TAAATTACAT	3720
GTTGGCGTTG TTAAATATGG CGATTCTCAA TTAAGCCCTA CTGTTGAGCG TTGGCTTTAT	3780
ACTGGTAAGA ATTTGTATAA CGCATATGAT ACTAAACAGG CTTTTTCTAG TAATTATGAT	3840
TCCGGTGTTT ATTCTTATTT AACGCCTTAT TTATCACACG GTCGGTATTT CAAACCATTA	3900
AATTTAGGTC AGAAGATGAA ATTAACTAAA ATATATTTGA AAAAGTTTTC TCGCGTTCTT	3960
TGTCTTGCGA TTGGATTTGC ATCAGCATTT ACATATAGTT ATATAACCCA ACCTAAGCCG	4020
GAGGTTAAAA AGGTAGTCTC TCAGACCTAT GATTTTGATA AATTCACTAT TGACTCTTCT	4080
CAGCGTCTTA ATCTAAGCTA TCGCTATGTT TTCAAGGATT CTAAGGGAAA ATTAATTAAT	4140
AGCGACGATT TACAGAAGCA AGGTTATTCA CTCACATATA TTGATTTATG TACTGTTTCC	4200
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GTCTAATACT TCTAAATCCT CAAATGTATT ATCTATTGAC GGCTCTAATC TATTAGTTGT	4740
TAGTGCACCT AAAGATATTT TAGATAACCT TCCTCAATTC CTTTCTACTG TTGATTTGCC	4800
AACTGACCAG ATATTGATTG AGGGTTTGAT ATTTGAGGTT CAGCAAGGTG ATGCTTTAGA	4860
TTTTTCATTT CCTGCTGGCT CTCAGCGTGG CACTGTTGCA GGCGGTGTTA ATACTGAGCG	4920

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CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTCGTTCGGT ATTTTTAATG GCGATGTTT	4980
ACCOCTATES GTTGGCGCAT TAAAGACTAA TAGCCATTCA AAAATATTGT CTGTGCCAC	3 3040
TATTCTTACG CTTTCAGGTC AGAAGGGTTC TATCTCTGTT GGCCAGAATG TCCCTTTTA'	r 5100
TACTGGTCGT GTGACTGGTG AATCTGCCAA TGTAAATAAT CCATTTCAGA CGATTGAGC	G 5160
TCAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTG	r 5220
TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATGTTA	T 5280
TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTAC	T 5340
TACTARICAR AGAINSTITE OF THE TACTARIAN AGAINST TOTAL GGCGTACCGT TCCTGTCTA	A 5400
AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGAT TCCAACGAGG AAAGCACGT	r 5460
ATACGTGCTC GTCAAAGCAA CCATAGTACG CGCCCTGTAG CGGCGCATTA AGCGCGGCG	G 5520
GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCTAGCG CCCGCTCCT	r 5580
TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCGGCTT TCCCCGTCAA GCTCTAAAT	c 5640
GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAAACTTC	g 5700
ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTT CGCCCTTTG	A 5760
CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTGCA AACTGGAACA ACACTCAAC	c 58 <b>2</b> 0
CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGGAA CCACCATCA	A 5580
ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAGG	G 5940
CCAGGGGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAAGCACGC	-L 9000
GCGGGGGAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGG	C 9090
ACCACAGGTT TCCCGACTGG AAAGCGGGGA GTGAGCGCAA CGCAATTAAT GTGAGTTAC	60 9120
TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGA	7V 9190
TTCTGAGCGG ATAACAATTI CACACGCCAA GGAGACAGTC ATAATGAAAT ACCTATIGC	6240
TACCCCAGCC GCTGGATTGT TATTACTCGC TGCCCAACGA GCCATGGCCG AGCTCGTGA	7.1 9200
CACCCAGACT CCAGAATTCC ATCCGGAATG AGTGTTAATT CTAGAACGCG TAAGUTTG	GC 0300
ACTOGOGOTO GTTTTACAAC GTCGTGACTG GGAAAACCCT GGCGTTACCC AACTTAAT	UG 6420
CCTTGCAGCA CACCCCCTT TCGCCAGCTG GCGTAATAGC GAAGAGGCCC GCACCGAT	CG 5480
CCCTTCCCAA CAGTTGCGCA GCCTGAATGG CGAATGGCGC TTTGCCTGGT TTCCGGCA	700 9340
ACAAGCGGTG CCGGAAAGCT GGCTGGAGTG CGATCTTGCT GAGGCCGATA CGGTCGTC	3GT 9900
CCCCTCAAAC TGGCAGATGC ACGGTTACGA TGCGCCCATC TACACCAACG TAACCTA	LCC 9000
CATTACCCTC AATCCGCCGT TTGTTCCCAC GGAGAATCCG ACGGGTTGTT ACTCGCT	CAC 6720
ATTTAATGTT GATGAAAGCT GGCTACAGGA AGGCCAGACG CGAATTATTT TTGATGG	CGI 6780
TOCTATTEGT TAAAAAATGA GCTGATTTAA CAAAAATTTA ACGCGAATTT TAAGAAA	MIK 0040
TTAACGTTTA CAATTTAAAT ATTTGCTTAT ACAATCTTCC TGTTTTTGGG GCTTTT	TIGA 8300
TTATCAACCG GGGTACATAT GATTGACATG CTAGTTTTAC GATTACCGTT CATCGA	TTCT 6960
* **** **	

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CTTGTTTGCT	CCAGACTCTC	AGGCAATGAC	CTGATAGCCT	TTGTAGATCT	CTCAAAAATA	/020
GCTACCCTCT	CCGGCATTAA	TTTATCAGCT	AGAACGGTTG	AATATCATAT	TGATGGTGAT	7080
TTGACTGTCT	CCGGCCTTTC	TCACCCTTTT	GAATCTTTAC	CTACACATTA	CTCAGGCATT	7140
GCATTTAAAA	TATATGAGGG	TTCTAAAAAT	TTTTATCCTT	GCGTTGAAAT	AAAGGCTTCT	7200
CCCGCAAAAG	TATTACAGGG	TCATAATGTT	TTTGGTACAA	CCGATTTAGC	TTTATGCTCT	7260
GAGGCTTTAT	TGCTTAATTT	TGCTAATTCT	TTGCCTTGCC	TGTATGATTT	ATTGGACGTT	7320

#### (2) INFORMATION FOR SEQ ID NO:3:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7445 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: circular

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

AATGCTACTA CTATTAGT	AG AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT	60
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CGTTCGCAGA ATTGGGAA	TC AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
GTTGCATATT TAAAACATO	GT TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240
TCTGCAAAAA TGACCTCT	TA TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
TTGGAGTTTG CTTCCGGT	CT GGTTCGCTTT	GAAGCTCGAA	TTAAAACGCG	ATATTTGAAG	360
TCTTTCGGGC TTCCTCTTA					420
CAGGGTAAAG ACCTGATT					480
TTTGAGGGGG ATTCAATGA		GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
AAACATTTTA CTATTACCO					600
GGTTTTTATC GTCGTCTG					660
AATTCCTTTT GGCGTTATC					720
ATGAATCTTT CTACCTGT					780
TCTTCCCAAC GTCCTGAC					840
CAATGATTAA AGTTGAAA					900
CTCGTCAGGG CAAGCCTT					960
AATATCCGGT TCTTGTCA					1020
					1080
TGTACACCGT TCATCTGT					1140
GTCTGCGCCT CGTTCCGG					1200
CAGGCGATGA TACAAATC					
CAAAGATGAG TGTTTTAG	TG TATTCTTTC	CCTCTTTCGT	TTTAGGTTG	TGCCTTCGTA	1260

GTGGCATTAC GTATTTTACC					1320
CAAAGCCTCT GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
CGATCCCGCA AAAGCGGCCT					1440
TGCGTGGGCG ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	IGTTTAAGAA	1500
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TTTTTGGAGA TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCCTTTAGT	TGTTCCTTTC	1620
TATTCTCACT CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
TTTACTAACG TCTGGAAAGA	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740
CTGTGGAATG CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
TGGGTTCCTA TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
TCTGAGGGTG GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
ATTCCGGGCT ATACTTATAT	CAACCCTCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980
AACCCCGCTA ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
CAGAATAATA GGTTCCGAAA					2100
CAAGGCACTG ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
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GATCCATTCG TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
GCTGGCGGCG GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
GGCGGTTCTG AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
GATTTTGATT ATGAAAAGAT					2460
GAAAACGCGC TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
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GGTGATTTTG CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
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ATTGGGATAA ATAATATGG					3240
CTCGTTAGCG TTGGTAAGA					3300

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CAGCGTCTTA ATCTAAGCTA TCGCTATGTT TTCAAGGATT CTAAGGGAAA ATTAATTAAT	4140
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TGATAATTCC GCTCCTTCTG GTGGTTTCTT TGTTCCGCAA AATGATAATG TTACTCAAAC	4620
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GTCTAATACT TCTAAATCCT CAAATGTATT ATCTATTGAC GGCTCTAATC TATTAGTTGT	4740
TAGTGCACCT AAAGATATTT TAGATAACCT TCCTCAATTC CTTTCTACTG TTGATTTGCC	4800
AACTGACCAG ATATTGATTG AGGGTTTGAT ATTTGAGGTT CAGCAAGGTG ATGCTTTAGA	4860
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TATTCTTACG CTTTCAGGTC AGAAGGGTTC TATCTCTGTT GGCCAGAATG TCCCTTTTAT	5100
TACTGGTCGT GTGACTGGTG AATCTGCCAA TGTAAATAAT CCATTTCAGA CGATTGAGCG	5160
TCAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT	5220
TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATGTTAT	5280
TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT	5340

CCGTGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GGCGTACCGT TCCTGTCTAA	5400
AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGAT TCCAACGAGG AAAGCACGTT	5460
ATACGTGCTC GTGAAAGCAA CCATAGTACG CGCCCTGTAG CGGCGCATTA AGCGCGGCGG	5520
GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCTAGCG CCCGCTCCTT	5580
TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCGGCTT TCCCCGTCAA GCTCTAAATC	5640
GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG	5700
ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA	5760
CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACTCAACC	5820
CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGGAA CCACCATCAA	5880
ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAGGG	5940
CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT	6000
GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC	6060
ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC	5120
TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA	6180
TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TTACAACGTC	6240
GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAACA	6300
AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC	6360
CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGATC	6420
CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC	6480
TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT	6540
TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC	6600
GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG	6660
GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC	6720
GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC	6780
TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACTCG	6840
CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT	6900
GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA	6960
AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT	7020
TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CCGTTCATCG	7080
ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA	7140
AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG	7200
GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG	7260
GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAGG	7320
CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT	7380

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81

GCTCTGAGGC	TTTATTGCTT	AATTTTGCTA	ATTCTTTGCC	TTGCCTGTAT	GATTTATTGG	7440
A C C T T						7445
ACGTT						, 442

#### (2) INFORMATION FOR SEO ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:

  (A) LENGTH: 7409 base pairs

  (B) TYPE: nucleic acid

  (C) STRANDEDNESS: both

  (D) TOPOLOGY: circular

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

AATGCTACTA CTATTAGTAC	G AATTGATGC	CACCTTTCAC	G CTCGCGCCC	C AAATGAAAAT	60
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CGTTCGCAGA ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
GTTGCATATT TAAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240
TCTGCAAAAA TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
TTGGAGTTTG CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TTAAAACGCG	ATATTTGAAG	360
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CAGGGTAAAG ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	480
TTTGAGGGGG ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
AAACATTTTA CTATTACCCC	CTCTGGCAAA	ACTICTTTTG	CAAAAGCCTC	TCGCTATTTT	600
GGTTTTTATC GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
AATTCCTTTT GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
ATGAATCTTT CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTIT	780
TCTTCCCAAC GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
CAATGATTAA AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900
CTCGTCAGGG CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
AATATCCGGT TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
TGTACACCGT TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGCTTCCCTT	ATGATTGACC	1080
GTCTGCGCCT CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140
CAGGCGATGA TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
CAAAGATGAG TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
GTGGCATTAC GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
CAAAGCCTCT GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
CGATCCCGCA AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
TGCGTGGGCG ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500

82	
ATTCACCTCG AAAGCAAGCT GATAAACCGA TACAATTAAA GGCTCCTTTT GGAGCCTTTC	1560
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TATTCTCACT CCGCTGAAAC TGTTGAAAGT TGTTTAGCAA AACCCCATAC AGAAAATTCA	1680
TATTCTCACT COGCTOMENT TO THE COCTACT ACCCTACTA TJAGGGTTGT	1740
CTGTGGAATG CTACAGGCGT TGTAGTTTGT ACTGGTGACG AAACTCAGTG TTACGGTACA	1800
TGGGTTCCTA TTGGGCTTGC TATCCCTGAA AATGAGGGTG GTGGCTCTGA GGGTGGCGGT	1860
TCTGAGGGTG GCGGTTCTGA GGGTGGCGGT ACTAAACCTC CTGAGTACGG TGATACACCT	1920
ATTCCGGGCT ATACTTATAT CAACCCTCTC GACGGCACTT ATCCGCCTGG TACTGAGCAA	1980
ATTCCGGGCT ATACTTATAT GARGOTTET  AACCCCGCTA ATCCTAATCC TTCTCTTGAG GAGTCTCAGC CTCTTAATAC TTTCATGTTT	2040 .
AACCCCGCTA ATCCTAATCC TTGTGTTGMC CHOCKER CAGAATAATA GGTTCCGAAA TAGGCAGGGG GCATTAACTG TTTATACGGG CACTGTTACT	2100
CAGGATAATA GGTTCCGAAA TAGGGAGGCACTC CAGTACACTC CTGTATCATC AAAAGCCATG	2160
CAAGGCACTG ACCCCGITAA AACTMINIO STATEMENT TO ACTGGAACGG TAAATTCAGA GACTGCGCTT TCCATTCTGG CTTTAATGAA	2220
GATCCATTCG TTTGTGAATA TCAAGGCCAA TCGTCTGACC TGCCTCAACC TCCTGTCAAT	2280
GATCCATTCG TITGIGARIA TOARGOOM TOOTOON GETGGTGGTGG CTCTGAGGGT GCTGGCGGCGCGCTCTC AGGGTGGTGG CTCTGAGGGT	2340
GCTGGCGGCG GCTCTGGTGG TGGTTCTGGTTCCGGTTCCGGTTCCGGTTCCGGTTCCGGTTCTGGTTCCGGTTCTGGCTCTGGTGG	2400
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GATTTTGATT ATGARAGGT GGGTLAGGGT AAACTTGATT CTGTCGCTAC TGATTACGGT	2520
GAAAACGCCC TACAGTOTGA GGCTALLIGG TECTOR CTAATGGTAA TGGTGCTACT GCTGCTATCG ATGGTTCAT TGGTGACGTT TCCGGCCTTG CTAATGGTAA TGGTGCTACT	2580
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TCTCTGTAAA GGCTGCTATT TTCATTTTT GCAACTGGCA AATTAGGCTC TGGAAAGAC	G 3240
ATTGGGATAA ATAATATGGC IGITTATTT GAMAGET GGTGCAAAAT AGCAACTAA CTCGTTAGCG TTGGTAAGAT TCAGGATAAA ATTGTAGCTG GGTGCAAAAT AGCAACTAA	T 3300
CTCGTTAGCG TTGGTAAGA1 TCAGGATAAA NTTOTHOOD  CTTGATTTAA GGCTTCAAAA CCTCCCGCAA GTCGGGAGGT TCGCTAAAAC GCCTCGCGT	T 3360
CTTGATTTAA GGCTTCAAAA CCTCCCGCAA GTGGGCTGCTTGCTTGCTTGCTTGCTTGCGCCCCGGTAATGACCCCTTAGAATACCCCTTATATCT GATTTGCTTGCTTGCTTGCTTGCTTGCTTGCTTGCTTGCT	AT 3420
TCCTACGATG AAAATAAAAA CGGCTTGCTT GTTCTCGATG AGTGCGGTAC TTGGTTTAA	AT 3480
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ACCCGTTCTT GGAATGATAA GGAAAGACAG COORTIATTO MASSAGATAA	

			- a.aa.amm.	m	• # • • • C • C C C C C	3600
•					A TAAACAGGCG	3660
					T TACTTTACCT	
					C TAAATTACAT	3720
					G TIGGCTTTAT	3780
ACTGGTAAGA	ATTTGTATA	A CGCATATGA	I ACTAAACAG	G CTTTTTCTAC	G TAATTATGAT	3840
TCCGGTGTTT	ATTCTTATT	r aacgccttai	TTATCACAC	GTCGGTATTI	CAAACCATTA	3900
AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTC	ACGCGTTCTT	3960
TGTCTTGCGA	TTGGATTTGC	ATCAGCATTT	ACATATAGTI	ATATAACCCA	ACCTAAGCCG	4020
GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	4200
ATTAAAAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AATTTTGTTT	TCTTGATGTT	4260
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TGTAACTTGG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380
TACTGTTACT	GTATATTCAT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTC	4440
TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
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TGATAATTCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAC	4620
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GTCTAATACT	TCTAAATCCT	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740
TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTC	CTTTCTACTG	TTGATTTGCC	4800
AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
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CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCGGT	ATTTTTAATG	GCGATGTTTT	4980
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TACTAATCAA						5340
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5.52551001						

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CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTGGC AACTGGGAA CGAGGATGAA	5880
CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGGAAC TCTCTCAGGG	5940
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CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT	6060
GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC	6120
ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC	6180
TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGTGT	
TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGCGGTGGTT TIAGMISSTS	6240
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GGGGTTTATG ACTTCTGAGG GATCCGGAGC TGAAGGUGAI GACCOIGGIA AGGGIGATI	6420
CAATAGTTTA CAGGCAAGTG CTACTGAGTA CATTGGCTAC GCTTGGGCTA TGGTAGTAGT	6480
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GAATGGCGCT TTGCCTGCTT TCCGGCACCA GAAGCGGTGC CGGAAAGCTG GCTGGAGTGC	6660
GATCTTCCTG AGGCCGATAC GGTCGTCGTC CCCTGAAACT GGCAGATGCA CGGTTACGAT	6720
GCGCCCATCT ACACCAACGT AACCTATGCC ATTACGGTCA ATCCGCCGTT TGTTCCCACG	6780
GAGAATCCGA CGGGTTGTTA CTCGCTCACA TTTAATGTTG ATGAAAGCTG GCTACAGGAA	6840
GGCCAGACGC GAATTATTIT TGATGGCGTT CCTATTGGTT AAAAAATGAG CTGATTTAAC	6900
AAAAATTTAA CGCGAATTTT AACAAAATAT TAACGTTTAC AATTTAAATA TTTGCTTATA	6960
CAATCTTCCT GTTTTTGGGG CTTTTCTGAT TATCAACCGG GGTACATATG ATTGACATGC	7020
TAGTITTACG ATTACCGTTC ATCGATTCTC TTGTTTGCTC CAGACTCTCA GGCAATGACC	7080
TAGTTTTACG ATTACOGTTO MISOMETER TAGTTTTACG ATTACAGCTA TGATAGCCTT TGTAGATCTC TCAAAAATAG CTACCCTCTC CGGCATTAAT TTATCAGCTA	7140
GAACGGTTGA ATATCATATT GATGGTGATT TGACTGTCTC CGGCCTTTCT CACCCTTTTG	7200
GAACGGTTGA ATAICATATT GATGGTGATT TOMOTOGT AATCTTTACC TACACATTAC TCAGGCATTG CATTTAAAAT ATATGAGGGT TCTAAAAATT	7260
AATCTTTACC TACACATTAC TCAGGGATTG CATTATACAGGGT CATAATGTTT TTTATCCTTG CGTTGAAATA AAGGCTTCTC CCGCAAAAGT ATTACAGGGT CATAATGTTT	7320
TTTATCCTTG CGTTGAAATA AAGGCTTCTG CCGGGEERT TO TATCCTTT GCTAATTCTT TTGGTACAAC CGATTTAGCT TTATGCTCTG AGGCTTTATT GCTAATTTT GCTAATTCTT	7380
	7409
TGCCTTGCCT GTATGATTTA TTGGACGTT	

#### (2) INFORMATION FOR SEQ ID NO:5:

(1) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 7294 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: both

(D) TOPOLOGY: circular

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

AATGCTACT	A CTATTAGTA	G AATTGATGC	C ACCTTTTCA	G CTCGCGCCC	C AAATGAAAAT	60
ATAGCTAAA	C AGGTTATTG	A CCATTTGCG	A AATGTATCT	A ATGGTCAAA	C TAAATCTACT	120
CGTTCGCAGA	A ATTGGGAAT	C AACTGTTACA	A TGGAATGAAA	A CTTCCAGACA	A CCGTACTTTA	180
GTTGCATAT	TAAAACATG1	TGAGCTACAC	CACCAGATTO	AGCAATTAAC	CTCTAAGCCA	240
TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TTAAAACGCG	ATATTTGAAG	360
TCTTTCGGGC	TTCCTCTTAA	TCTTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	480
TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TIGCTCTTAC	TATGCCTCGT	660
AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT.	900
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AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140
CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
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					GGAGCCTTTT	1560
				TTCCTTTAGT		1620
					AGAAAATTCA	1680

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ATTCCGGGCT ATACTTATAT CAACCCTCTC GACGGCACTT ATCCGCCTGG TACTGAGCAA	2040
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CAGAATAATA GGTTCCGAAA TAGGCAGGGG GCATTAACTG TTTATACGGG CACTGTTACT	2160
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GATCCATTCG TTTGTGAATA TCAAGGCCAA TCGTCTGACC TGCCTCAACC TCCTGTCAAT	2340
GATCGATTCG TTTGTCATTCT  GCTGGCGGCG GCTCTGGTGG TGGTTCTGGT GGCGGCTCTG AGGGTGGTGG CTCTGAGGGT  GCTGGCGGCG GCTCTGGTGG TGGTTCCGGT	2400
GCTGGCGGCG GGTGTGCGG GTCTGAGGGA GGCGGTTCCG GTGGTGGCTC TGGTTCCGGT	2460
GGCGGTTCTG AGGCTAGAGGT GGCAAACGCT AATAAGGGGG CTATGACCGA AAATGCCGAT GATTTGATT ATGAAAAGAT GGCAAACGCT AATAAGGGGG CTATGACCGA AAATGCCGAT	2520
GATITIGATI ATGMERATORE GAAAGGC AAACTTGATT CTGTCGCTAC TGATTACGGT GAAAACGCGC TACAGTCTGA CGCTAAAGGC AAACTTGATT CTGTCGCTAA TGGTGGTACT	2580
GAAAACGCGC TAGACTOTOT TGGTGACGTT TCCGGCCTTG CTAATGGTAA TGGTGCTACT	2640
GCTGCTATCG ATGGTTONT  GGTGATTTTG CTGGCCTCTAA TTCCCAAATG GCTCAAGTCG GTGACGGTGA TAATTCACCT  GGTGATTTTG CTGGCCCTAA TTCCCCAAATG GCTCAAGTCG GTGACGGTGA TAATTCACCT	2700
TTAATGAATA ATTTCCGTCA ATATTTACCT TCCCTCCCTC AATCGGTTGA ATGTCGCCCT	2760
TTAATGAATA ATTTOOGTON TOO	2820
TTCCGTGGTG TCTTTGCGTT TCTTTTATAT GTTGCCACCT TTATGTATGT ATTTTCTACG	2880
TTCCGTGGTG TCTTTGGGTT TAATCATGCC AGTTCTTTTG GGTATTCCGT TTTGCTAACA TACTGCGTAA TAAGGAGTCT TAATCATGCC AGTTCTTTTG GGTATTCCGT	2940
TATTATTGCG TITCCTCGGT TICCTTCTGG TAACTTTGTT CGGCTATCTG CTTACTTTTC	3000
TTAAAAAGGG CTTCGGTAAG ATAGCTATTG CTATTTCATT GTTTCTTGCT CTTATTATTG	3060
GGCTTAACTC AATTCTTGTG GGTTATCTCT CTGATATTAG CGCTCAATTA CCCTCTGACT	3120
TTGTTCAGGG TGTTCAGTTA ATTCTCCCGT CTAATGCGCT TCCCTGTTTT TATGTTATTC	3180
TTGTTCAGGG TGTTCAGTAT TTCATTTTTG ACGTTAAACA AAAAATCGTT TCTTATTTGG TCTCTGTAAA GGCTGCTATT TTCATTTTTG ACGTTAAACA AAAAATCGTT TCTTATTTGG	3240
ATTGGGATAA ATAATATGGC TGTTTATTTT GTAACTGGCA AATTAGGCTC TGGAAAGACG	3300
ATTGGGATAA ATAATATOOO TOOTOO TOOTOO TOOTOO TOOTOO TOOTOO TOOTOO	3360
CTCGTTAGCG TIGGTAAGAT TONOONOON CTCGCGAGGT TCGCTAAAAC GCCTCGCGTT CTTGATTTAA GGCTTCAAAA CCTCCCGCAA GTCGGGAGGT TCGCTAAAAC GCCTCGCGTT CTTGATTTAA GGCTCAAAA	3420
CTTGATTTAA GGCTTCATET OF CTTGGTTG CTATTGGGCG CGGTAATGAT CTTAGAATAC CGGATAAGCC TTCTATATCT GATTTGCTTG ACTGCGGTAC TTGGTTTAAT	3480
TCCTACGATG AAAATAAAAA CGGCTTGCTT GTTCTCGATG AGTGCGGTAC TTGGTTTAAT	3540
ACCCGTTCTT GGAATGATAA GGAAAGACAG CCGATTATTG ATTGGTTTCT ACATGCTCGT	3600
ACCCGTTGTT GGARTGATAT CONTENTS CAGGACTTAT CTATTGTTGA TAAACAGGCG AAATTAGGAT GGGATATTAT CTTCCTTGTT CAGGACTTAT CTATTGTTGA TAAACAGGCG	3660
CGTTCTGCAT TAGCTGAACA TGTTGTTTAT TGTCGTCGTC TGGACAGAAT TACTTTACCT	3720
TTTGTCGGTA CTTTATATTC TCTTATTACT GGCTCGAAAA TGCCTCTGCC TAAATTACAT	

GTTGGCGTTG	TTAAATATGO	G CGATTCTCA	A TTAAGCCCT	A CTGTTGAGC	G TIGGCTTTAT	3780
ACTGGTAAGA	ATTTGTATAA	CGCATATGA	r actaaacag	G CTTTTTCTA	G TAATTATGAT	3840
TCCGGTGTTT	ATTCTTATTT	AACGCCTTAT	TTATCACAC	G GTCGGTATT	CAAACCATTA	3900
AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	A ATATATTIGA	AAAAGTTTT(	ACGCGTTCTT	3960
TGTCTTGCGA	TTGGATTTGC	ATCAGCATTI	ACATATAGTI	ATATAACCCA	ACCTAAGCCG	4020
GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
AGCGACGATT T	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	4200
ATTAAAAAGG 1	raattcaaat	GAAATTGTTA	AATGTAATTA	ATTTTGTTTT	CTTGATGTTT	4260
GTTTCATCAT	CTTCTTTTGC	TCAGGTAATT	GAAATGAATA	ATTCGCCTCT	GCGCGATTTT	4320
GTAACTTGGT A	TTCAAAGCA	ATCAGGCGAA	TCCGTTATTG	TTTCTCCCGA	TGTAAAAGGT	4380
ACTGTTACTG T	TATATTCATC	TGACGTTAAA	CCTGAAAATC	TACGCAATTT	CTTTATTTCT	4440
GTTTTACGTG C	TAATAATT	TGATATGGTT	GGTTCAATTC	CTTCCATTAT	TTAGAAGTAT	4500
AATCCAAACA A	TCAGGATTA	TATTGATGAA	TTGCCATCAT	CTGATAATCA	GGAATATGAT	4560
GATAATTCCG C	TCCTTCTGG	TGGTTTCTTT	GTTCCGCAAA	ATGATAATGT	TACTCAAACT	4620
TTTAAAATTA A	TAACGTTCG	GGCAAAGGAT	TTAATACGAG	TTGTCGAATT	GTTTGTAAAG	4680
TCTAATACTT C	TAAATCCTC	AAATGTAT <sup>T</sup> A	TCTATTGACG	GCTCTAATCT	ATTAGTTGTT	4740 .
AGTGCACCTA A	AGATATTTT	AGATAACCTT	CCTCAATTCC	TTTCTACTGT	TGATTTGCCA	4800
ACTGACCAGA T	ATTGATTGA	GGGTTTGATA	TTTGAGGTTC	AGCAAGGTGA	TGCTTTAGAT	4860
TTTTCATTTG C	TGCTGGCTC	TCAGCGTGGC	ACTGTTGCAG	GCGGTGTTAA	TACTGACCGC	4920
CTCACCTCTG T	TTTATCTTC	TGCTGGTGGT	TCGTTCGGTA	TTTTTAATGG	CGATGTTTTA	4980
GGGCTATCAG T	TCGCGCATT	AAAGACTAAT	AGCCATTCAA	AAATATTGTC	TGTGCCACGT	5040
ATTCTTACGC T	TTCAGGTCA	GAAGGGTTCT	ATCTCTGTTG	GCCAGAATGT	CCCTTTTATT	5100
ACTGGTCGTG T	GACTGGTGA	ATCTGCCAAT	GTAAATAATC	CATTTCAGAC	GATTGAGCGT	5160
CAAAATGTAG G	TATTTCCAT	GAGCGTTTTT	CCTGTTGCAA	TCGCTGGCGG	TAATATTGTT	5220
CTGGATATTA C	CAGCAAGGC	CGATAGTTTG	AGTTCTTCTA	CTCAGGCAAG	TGATGTTATT	5280
ACTAATCAAA G	AAGTATTGC	TACAACGGTT	AATTTGCGTG	ATGGACAGAC	TCTTTTACTC	5340
GGTGGCCTCA C						5400
ATCCCTTTAA T						5460
TACGTGCTCG T						5520
TGTGGTGGTT A						5580
CGCTTTCTTC (						5640
GGGGCTCCCT	TAGGGTTCC	GATTTAGTGC	TTTACGGCAC	CTCGACCCCA	AAAAACTTGA	5700
TTTGGGTGAT (	GGTTCACGTA	GTGGGCCATC	GCCCTGATAG	ACGGTTTTTC	GCCCTTTGAC	5760

		amaa. am	OFFICTT CCAA	ACTGGAAGAA	CACTCAACCC	5820
GTTGGAGTCC	ACGTTCTTTA	ATAGTGGACT	CITCLICONN	AMMERICANAC	CACCATCAAA	5880
TATCTCGGGC	TATTCTTTTG	ATTTATAAGG	GATTTTGGGG	ATTICGGAAC	CHOCKLONER!	5940
CAGGATTTTC	GCCTGCTGGG	GCAAACCAGC	GTGGACCGCT	TGCTGCAACT	CTCTCAGGGC	•
CAGGCGGTGA	AGGGCAATCA	GCTGTTGCCC	GTCTCGCTGG	TGAAAAGAAA	AACCACCCTG	6000
GCGCCCAATA	CGCAAACCGC	CTCTCCCCGC	GCGTTGGCCG	ATTCATTAAT	GCAGCTGGCA	6060
CGACAGGTTT	CCCGACTGGA	AAGCGGGCAG	TGAGCGCAAC	GCAATTAATG	TGAGTTAGCT	6120
CACTCATTAG	GCACCCCAGG	CTTTACACTT	TATGCTTCCG	GCTCGTATGT	TGTGTGGAAT	6180
		ACACAGGAAA				6240
GTAGGAGAGC	TCGGCGGATC	CGAGGCTGAA	GGCGATGACC	CTGCTAAGGC	TGCATTCAAT	6300
AGTTTACAGG	CAAGTGCTAC	TGAGTACATT	GGCTACGCTT	GGGCTATGGT	AGTAGTTATA	6360
GTTGGTGCTA	CCATAGGGAT	TAAATTATTC	AAAAAGTTTA	CGAGCAAGGC	TTCTTAACCA	6420
GCTGGCGTAA	TAGCGAAGAG	GCCCGCACCG	ATCGCCCTTC	CCAACAGTTG	CGCAGCCTGA	6480
ATGGGGAATG	GCGCTTTGCC	TGGTTTCCGG	CACCAGAAGC	GGTGCCGGAA	AGCTGGCTGG	6540
AGTGCGATCT	TCCTGAGGCC	GATACGGTCG	TCGTCCCCTC	AAACTGGCAG	ATGCACGGTT	6600
		AACGTAACCT				6660
CCACGGAGAA	TCCGACGGGT	TGTTACTCGC	TGACATTTAA	TGTTGATGAA	AGCTGGCTAC	6720
AGGAAGGCGA	GACGCGAATT	ATTTTTGATG	GCGTTGCTAT	TGGTTAAAAA	ATGAGCTGAT	6780
TTAACAAAAA	TTTAACGCGA	ATTTTAACAA	AATATTAACG	TTTACAATTT	AAATATTTGC	6840
TTATACATC	TTCCTGTTTT	TGGGGCTTTT	CTGATTATCA	ACCGGGGTAC	ATATGATTGA	6900
CATCCTACTT	TTACGATTAC	CGTTCATCGA	TTCTCTTGTT	TGCTCCAGAC	TCTCAGGCAA	6960
CAIGCIAGII	CCCTTTGTAG	ATCTCTCAAA	AATAGCTACC	CTCTCCGGCA	TTAATTTATC	7020
TGACCIGALA	CTTCAATATC	ATATTGATGG	TGATTTGACT	GTCTCCGGCC	TTTCTCACCC	7080
AGCTAGAACG	GIIGARIAIO	ATTACTCAGG	CATTGCATTT	AAAATATATG	AGGGTTCTAA	7140
TTTTGAATCT	TIAGGIAGAG	ALIMOTORUS COCALARA	TTCTCCCGCA	AAAGTATTAC	AGGGTCATAA	7200
AAATTTTTAT	CCTTGCGTTG	, <u>AAAIAAAGG</u>	CTCTGAGGCT	TTATTGCTTA	ATTTTGCTAA	7260
						7294
TTCTTTGCC	TGCCTGTAT	ATTTATTGG	Y CGII			

### (2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 7394 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: both

(D) TOPOLOGY: circular

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

ATAGCTAAAC AGGTTATTGA	CCATTTGCG	A AATGTATCT	A ATGGTCAAA	C TAAATCTACT	120	
CGTTCGCAGA ATTGGGAATC	AACTGTTAC	A TGGAATGAA	A CTTCCAGAC	A CCGTACTTTA	180	
GTTGCATATT TAAAACATGT	TGAGCTACA	G CACCAGATT	C AGCAATTAA	G CTCTAAGCCA	240	
TCTGCAAAAA TGACCTCTTA	TCAAAAGGA	G CAATTAAAG	G TACTCTCTA	A TCCTGACCTG	300	
TTGGAGTTTG CTTCCGGTCT	GGTTCGCTT	r gaagctcga	A TTAAAACGC	G ATATTTGAAG	360	
TCTTTCGGGC TTCCTCTTAA	TCTTTTTGAT	C GCAATCCGC	TTGCTTCTG	A CTATAATAGT	420	
CAGGGTAAAG ACCTGATTTT	TGATTTATG	TCATTCTCGT	TTTCTGAACI	GTTTAAAGCA	480	
TTTGAGGGGG ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540	
AAACATTTTA CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600	
GCTTTTTATC CTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660 .	
AATTCCTTTT GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720	
ATGAATCTTT CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780	
TCTTCCCAAC GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840	
CAATGATTAA AGTTGAAATT A	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900	
CTCGTCAGGG CAAGCCTTAT T	CACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960	
AATATCCGGT TCTTGTCAAG A	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020	
TGTACACCGT TCATCTGTCC T	CTTTCAAAG	TGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080	•
GTCTGCGCCT CGTTCCGGCT A	AGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140	٠.
CAGGCGATGA TACAAATCTC C	GTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200	
CAAAGATGAG TGTTTTAGTG T	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260	
GTGGCATTAC GTATTTTACC C	GTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320	
CAAAGCCTCT GTAGCCGTTG C	TACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380	
CGATCCCGCA AAAGCGGCCT T	TAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440	
TGCGTGGGCG ATGGTTGTTG T	CATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500	
ATTCACCTCG AAAGCAAGCT G	ATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT	1560	
TTTTTGGAGA TTTTGAACGT G	AAAAAATTA	TTATTCGCAA	TTCCTTTAGT	TGTTCCTTTC	1620	
TATTCTCACT CCGCTGAAAC T	GTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680	
TTTACTAACG TCTGGAAAGA C	GACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740	
CTGTGGAATG CTACAGGCGT T	GTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800	
TGGGTTCCTA TTGGGCTTGC T	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860	
TCTGAGGGTG GCGGTTCTGA	GGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920	
ATTCCGGGCT ATACTTATAT (	CAACCCTCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980	
AACCCCGCTA ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040	
CAGAATAATA GGTTCCGAAA	TAGGCAGGGG	GCATTAACTG	TTTATACGGG	CACTGTTACT	2100	

CACTACACTC CTGTATCATC AAAAGCCATG	2160
CAAGGCACTG ACCCCGTTAA AACTTATTAC CAGTACACTC CTGTATCATC AAAAGCCATG	2220
TATGACGCTT ACTGGAACGG TAAATTCAGA GACTGCGCTT TCCATTCTGG CTTTAATGAA	2280
GATCCATTCG TTTGTGAATA TCAAGGCCAA TCGTCTGACC TGCCTCAACC TCCTCTCAAT	2340
GATCCATICG TITOTOMINATOR OF THE CONTROL OF THE CONT	2400
GCTGGCGGGG GCTGTGGGGG GCGGTTCCG GTGGTGGCTC TGGTTCCGGT GGCGGTTCTG AGGGTGGCGG CTCTGAGGGA GGCGGTTCCG GTGGTGGCTC TGGTTCCGGT	2460
GGCGGTTCTG AGGGTEGGT  GATTTTGATT ATGAAAAGAT GGCAAACGCT AATAAGGGGG CTATGACCGA AAATGCCGAT  GATTTTGATT CTCTCGCTAC TGATTACGGT	2520
GAAAACGCGC TACAGTCTGA CGCTAAAGGC AAACTTGATT CTGTCGCTAC TGATTACGGT	2580
GAAAACGCGC TACAGGTGTAT TCCGGCCTTG CTAATGGTAA TGGTGCTACT GCTGCTATCG ATGGTTCAT TGGTGACGTT TCCGGCCTTG CTAATGGTAA TGGTGCTACT	2640
GCTGCTATCG ATGGTTCAA TTCCCAAATG GCTCAAGTCG GTGACGGTGA TAATTCACCT	2700
TTAATGAATA ATTTCCGTCA ATATTTACCT TCCCTCCCTC AATCGGTTGA ATGTCGCCCT	2760
TTTGTCTTTA GCGCTGGTAA ACCATATGAA TTTTCTATTG ATTGTGACAA AATAAACTTA	2820
TTCCGTGGTG TCTTTGCGTT TCTTTTATAT GTTGCCACCT TTATGTATGT ATTTTCTACG	2880
TITGCTAACA TACTGCGTAA TAAGGAGTCT TAATCATGCC AGTTCTTTTG GGTATTCCGT	2940
TATTATTGCG TTTCCTCGGT TTCCTTCTGG TAACTTTGTT CGGCTATCTG CTTACTTTTC	3000
TTAAAAAGGG CTTCGGTAAG ATAGCTATTG CTATTTCATT GTTTCTTGCT CTTATTATTG	3060
GGCTTAACTC AATTCTTGTG GGTTATCTCT CTGATATTAG CGCTCAATTA CCCTCTGACT	3120
TTGTTCAGGG TGTTCAGTTA ATTCTCCCGT CTAATGCGCT TCCCTGTTTT TATGTTATTC	3180
TIGITCAGGG IGITCAGTAT TICATTITIG ACGITAAACA AAAAATCGIT IGITATTITGG TCTCTGTAAA GGCTGCTATI TICATTITIG ACGITAAACA AAAAATCGIT IGIAAAGACG	3240
ATTGGGATAA ATAATATGGC TGTTTATTTT GTAACTGGCA AATTAGGCTC TGGAAAGACG	3300
CTCGTTAGCG TTGGTAAGAT TTAGGATAAA ATTGTAGCTG GGTGCAAAAT AGCAACTAAT	3360
CTTGATTTAA GGCTTCAAAA CCTCCCGCAA GTCGGGAGGT TCGCTAAAAC GCCTCGCGTT CTTAGAATAC CGGATAAGCC TTCTATATCT GATTTGCTTG CTATTGGGCG CGGTAATGAT	3420
CTTAGAATAC CGGATAAGCC TTCTATATCT GATTIGGTTG  TCCTACGATG AAAATAAAAA CGGCTTGCTT GTTCTCGATG AGTGCGGTAC TTGGTTTAAT	3480
TCCTACGATG AAAATAAAAA CGGCTTGCTT GTTUTOONTO TO TO TAAACAGGCG ACCCGTTCTT GGAATGATAA GGAAAGAGAG CCGATTATTG ATTGGTTTCT ACATGCTCGT	3540
ACCCGTTCTT GGAATGATAA GGAAAGAGAG CCGATTATTCTTGA TAAACAGGCG AAATTAGGAT GGGATATTAT TTTTCTTGTT CAGGACTTAT CTATTGTTGA TAAACAGGCG	3600
AAATTAGGAT GGGATATTAT TITTCTTGTT CAGGACT TGGACAGAAT TACTTTAGCT CGTTCTGCAT TAGCTGAACA TGTTGTTTAT TGTCGTCGTC TGGACAGAAT TACTTTACCT	3660
CGTTCTGCAT TAGCTGAACA TGTTGTTTAT TGTGGCTCGAAAA TGCCTCTGCC TAAATTACAT TTTGTCGGTA CTTTATATTC TCTTATTACT GGCTCGAAAA TGCCTCTGCC TAAATTACAT	3720
TTTGTCGGTA CTTTATATTC TCTTATTACT GGGTGGTTAT GTTGGCGTTG TTAAATATGG CGATTCTCAA TTAAGCCCTA CTGTTGAGCG TTGGCTTTAT GTTGGCGTTG TTAAATATGG CGATTCTCAA TTAAGCCCTA CTGTTGAGCG TAATTATGAT	3780
GTTGGCGTTG TTAAATATGG CGATTCTGAA TAATAAGAGG CTTTTTCTAG TAATTATGAT ACTGGTAAGA ATTTGTATAA CGCATATGAT ACTAAAGAGG CTTTTTCTAG TAATTATGAT	3840
ACTGGTAAGA ATTTGTATAA CGCATATGAT ACMILLATOR GTCGGTATTT CAAACCATTA TCCGGTGTTT ATTCTTATTT AACGCCTTAT TTATCACACG GTCGGTATTT CACACCATTA	3900
TCCGGTGTTT ATTCTTATTT AACGCCTTAT TIMTOTTOTTATATCCCA ACCTAGGCGTTCTT  AATTTAGGTC AGAAGATGAA GCTTACTAAA ATATATTTGA AAAAGTTTTC ACGCGTTCTT	3960
AATTTAGGTC AGAAGATGAA GCTTACTAAA MAATATAGTT ATATAAGCCA ACCTAAGCCG TGTCTTGCGA TTGGATTTGC ATCAGCATTT ACATATAGTT ATATAACCCA ACCTAAGCCG	4020
TGTCTTGCGA TTGGATTTGC ATCAGCATTT MONTHLESS ATTACTCTCT GAGGTTAAAA AGGTAGTCTC TCAGACCTAT GATTTGATA AATTCACTAT TGACTCTTCT	4080
GAGGTTAAAA AGGTAGTCTC TCAGACCTAT CHTTTTTCAAGGAAA ATTAATTAAT CAGCGTCTTA ATCTAAGCTA TCGCTATGTT TTCAAGGATT CTAAGGGAAA ATTAATTAAT	4140
CAGCGTCTTA ATCTAAGCIA 10001A1011 22222	

TACTCTTTC	4200
AGCGACGATT TACAGAAGCA AGGTTATTCA CTCACATATA TTGATTTATG TACTGTTTCC	
ATTAAAAAAG GTAATTCAAA TGAAATTGTT AAATGTAATT AATTTTGTTT TCTTGATGTT	
TGTTTCATCA TCTTCTTTTG CTCAGGTAAT TGAAATGAAT AATTCGCCTC TGCGGGATTT	
TGTAACTTGG TATTCAAAGC AATCAGGCGA ATCCGTTATT GTITCTCCCG ATGTAAAAGG	
TACTGTTACT GTATATTCAT CTGACGTTAA ACCTGAAAAT CTACGCAATT TCTTTATTTC	4440
TGTTTTACGT GCTAATAATT TTGATATGGT TGGTTCAATT CCTTCCATAA TTCAGAAGTA	4500
TAATCCAAAC AATCAGGATT ATATTGATGA ATTGCCATCA TCTGATAATC AGGAATATGA	4560
TGATAATTCC GCTCCTTCTG GTGGTTTCTT TGTTCCGCAA AATGATAATG TTACTCAAAC	4620
TTTTAAAATT AATAACGTTC GGGCAAAGGA TTTAATACGA GTTGTCGAAT TGTTTGTAAA	4680
GTCTAATACT TCTAAATCCT CAAATGTATT ATCTATTGAC GGCTCTAATC TATTAGTTGT	4740
TAGTGCACCT AAAGATATTT TAGATAACCT TCCTCAATTC CTTTCTACTG TTGATTTGCC	4800
AACTGACCAG ATATTGATTG AGGGTTTGAT ATTTGAGGTT CAGCAAGGTG ATGCTTTAGA	4860
TTTTTCATTT GCTGCTGGCT CTCAGCGTGG CACTGTTGCA GGCGGTGTTA ATACTGACCG	4920
CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTCGTTCGGT ATTTTTAATG GCGATGTTTT	4980
AGGGCTATCA GTTCGCGCAT TAAAGACTAA TAGCCATTCA AAAATATTGT CTGTGCCACG	5040
TATTCTTACG CTTTCAGGTC AGAAGGGTTC TATCTCTGTT GGCCAGAATG TCCCTTTTAT	5100
TACTGGTCGT GTGACTGGTG AATCTGCCAA TGTAAATAAT CCATTTCAGA CGATTGAGCG	5160
TCAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT	5220
TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATGTTAT	5280
TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT	5340
CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GGCGTACCGT TCCTGTCTAA	5 <b>40</b> 0
AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGAT TCCAACGAGG AAAGCACGTT	5460
ATACGTGCTC GTCAAAGCAA CCATAGTACG CGCCCTGTAG CGGCGCATTA AGCGCGGGGG	5520
GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCTAGCG CCCGCTCCTT	5580
TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCGGCTT TCCCCGTCAA GCTCTAAATC	5640
GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG	5700
ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA	5760
CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACTCAACC	5820
CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGGAA CCACCATCAA	5880
ACAGGATITT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAGGG	5940
CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT	6000
GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC	6060
ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC	6120
TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA	6180
IOUATON AAAAA AAAAA AAAAA AAAAA AAAAA AAAAA AAAA	

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TTGTGAGCGG ATAACAATTI	CACACGCGTC	ACTTGGCACT	GGCCGTCGTT	TTACAACGTC	6240
TTGTGAGCGG ATAACAATTT	CCCAAC	CTTTGTACAT	GGAGAAAATA	AAGTGAAACA	6300
GTGACTGGGA AAACCCTGGC	GTTACCCAAG	· omorre ACC	CCTGTGGCAA	AAGCCCTTCT	6360
GTGACTGGGA AAACCCTGGCA	TCTTACCGTT	ACIGITIACO	CCATTCAATA	GTTTACAGGC	6420
	CCCATGACCC	TGCTAAGGGI	GOMITORMIA	<del></del> -	6480
	C CCTACGCTTG	GGCTATGGIA	GIMOTIMI		6540
mm A EVEC	AAAAGTTTAC	GAGCAAGGUI	ICIIMIOCIA		
	C CCAACAGTTG	CGCAGCCTGA	AIGGCGAAIG		6600
GCCCGCACCG ATCGCCCTT TGGTTTCCGG CACCAGAAG	a comeceesAA	AGCTGGCTGG	AGTGCGATCT	TCCTGAGGCC	6660
TGGTTTCCGG CACCAGAAG GATACGGTCG TCGTCCCCT	C GGIGGGGG	ATGCAGGGTT	ACGATGCGCC	CATCTACACC	6720
GATACGGTCG TCGTCCCCT	C AAACIGGGAG	COUTTTOTT	CCACGGAGAA	TCCGACGGGT	6780
GATACGGTCG TCGTCCCCT  AACGTAACCT ATCCCATTA	C GGTCAATCCC	; COGILIGIE	ACCAACGCCA	GACGCGAATT	6840
TGTTACTCGC TCACATTTA	A TGTTGATGA	AGCTGGCTAC	, AGGAAGGGG	TTTAACGCGA	6900
TO COMMICCE	T TCCTTAAAAA	A ATGAGCTGAT	TIMMONNEL		6960
	C TTTACAATT	r AAATATTIGO	LIAIMONAIC	,	7020
TO A TOTAL TO	A ACCGGGGTA	C ATATGATIGA	( CAIGCIAGI		
am amm	T TOOTCOAGA	C TCTCAGGCA	4 ICACCIONIA		7080
CGTTCATCGA TTCTCTTG. ATCTCTCAAA AATAGCTA	oc crerecess	A TTAATTTAT	C AGCTAGAAC	G GTTGAATATC	7140
ATCTCTCAAA AATAGCIAG ATATTGATGG TGATTIGA	mamacaaa	·c TTTCTCACC	C TTTTGAATC	T TTACCTACAC	7200
ATATTGATGG TGATTTGA	CT GTC100GG	- LOCOTTOTA	A AAATTITTA	T CCTTGCGTTG	7260
ATATTGATGG TGATTTGA ATTACTCAGG CATTGCAT	TT AAAATATAT	ALCOTTODOR D	A TOTTTTTGG	T ACAACCGATT	7320
AAATAAAGGC TTCTCCCG	CA AAAGTATTA	AC AGGGTGATA	ሉ ታሪደደደደደ	T TGCCTGTATG	7380
TAGCTTTATG CTCTGAGG	CT TTATTGCT	ra attitigeta	W HOTTIGUE		7394
ATTIATIGGA CGTT					

## (2) INFORMATION FOR SEQ ID NO:7:

- (1) SEQUENCE CHARACTERISTICS:

  (A) LENGTH: 37 base pairs

  - (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GATCCTAGGC TGAAGGCGAT GACCCTGCTA AGGCTGC

## (2) INFORMATION FOR SEQ ID NO:8:

- (1) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 35 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
ATTCAATAGT TTACAGGCAA GTGCTACTGA GTACA	35
(2) INFORMATION FOR SEQ ID NO:9:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 35 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
TTGGCTACGC TTGGGCTATG GTAGTAGTTA TAGTT	35
(2) INFORMATION FOR SEQ ID NO:10:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 35 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	7.5
GGTGCTACCA TAGGGATTAA ATTATTCAAA AACTT	35
(2) INFORMATION FOR SEQ ID NO:11:	
<ul> <li>(1) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
TACGAGCAAG GCTTCTTA	18
(2) INFORMATION FOR SEQ ID NO:12:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 39 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
AGCTTAAGAA GCCTTGCTCG TAAACTTTTT GAATAATTT	39

(2) INFORMATION FOR SEQ ID NO:13:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 36 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: AATCCCTATG GTAGCACCAA CTATAACTAC TACCAT	36
AATCCCTATG GTAGONOSIZI CINCA	
(2) INFORMATION FOR SEQ ID NO:14:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 35 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	3.5
AGCCCAAGCG TAGCGAATGT ACTCAGTAGC ACTTG	35
(2) INFORMATION FOR SEQ ID NO:15:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 34 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
CCTGTAAACT ATTGAATGCA GCCTTAGCAG GGTC	34
(2) INFORMATION FOR SEQ ID NO:16:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 16 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	16
ATCGCCTTCA GCCTAG	10
(2) INFORMATION FOR SEQ ID NO:17:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 27 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
CTCGAATTCG TACATCCTGG TCATAGC	27
(2) INFORMATION FOR SEQ ID NO:18:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
CATTTTTGCA GATGGCTTAG A	21
(2) INFORMATION FOR SEQ ID NO:19:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
TAGCATTAAC GTCCAATA	18
(2) INFORMATION FOR SEQ ID NO:20:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 26 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
ATATATTTTA GTAAGCTTCA TCTTCT	26
(2) INFORMATION FOR SEQ ID NO:21:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 23 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
GACAAAGAAC GCGTGAAAAC TTT	23

(2) INFORMATION FOR SEQ ID NO:22:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 35 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	4
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	35
GCGGGCCTCT TCGCTATTGC TTAAGAAGCC TTGCT	3,3
(2) INFORMATION FOR SEQ ID NO:23:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 48 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	•
(x1) SEQUENCE DESCRIPTION: SEQ ID NO:23:	4.0
TTCAGCCTAG GATCCGCCGA GCTCTCCTAC CTGCGAATTC GTACATCC	48
(2) INFORMATION FOR SEQ ID NO:24:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 24 base pairs  (B) TYPE: nucleic acid  (C) STRANTEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	24
TGGATTATAC TICTAAATAA TGGA	24
(2) INFORMATION FOR SEQ ID NO:25:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 36 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	36
TAACACTCAT TCCGGATGGA ATTCTGGAGT CTGGGT	96
(2) INFORMATION FOR SEQ ID NO:26:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 22 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single	

TCTAGAACGC GTC

(x1) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
AATTCGCCAA GGAGACAGTC AT	22
(2) INFORMATION FOR SEQ ID NO:27:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 39 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
AATGAAATAC CTATTGCCTA CGGCAGCCGC TGGATTGTT	39
(2) INFORMATION FOR SEQ ID NO:28:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 39 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
ATTACTCGCT GCCCAACCAG CCATGGCCGA GCTCGTGAT	39
(2) INFORMATION FOR SEQ ID NO:29:	
(1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 39 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
GACCCAGACT CCAGATATCC AACAGGAATG AGTGTTAAT	39
(2) INFORMATION FOR SEQ ID NO:30:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 13 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(x1) SEQUENCE DESCRIPTION: SEQ ID NO:30:	

(2) INFORMATION FOR SEQ ID NO:31:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 35 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	35
ACGTGACGCG TTCTAGAATT AACACTCATT CCTGT	33
(2) INFORMATION FOR SEQ ID NO:32:	•
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 39 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
TGGATATCTG GAGTCTGGGT CATCACGAGC TCGGCCATG	39
(2) INFORMATION FOR SEQ ID NO:33:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 39 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
GCTGGTTGGG CAGCGAGTAA TAACAATCCA GCGGCTGCC	39
(2) INFORMATION FOR SEQ ID NO:34:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 37 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
GTAGGCAATA GGTATTTCAT TATGACTGTC CTTGGCG	37
(2) INFORMATION FOR SEQ ID NO:35:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 30 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	
TGACTGTCTC CTTGGCGTGT GAAATTGTTA	30
(2) INFORMATION FOR SEQ ID NO:36:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 36 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
TAACACTCAT TCCGGATGGA ATTCTGGAGT CTGGGT	36
(2) INFORMATION FOR SEQ ID NO:37:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	
CAATTTTATC CTAAATCTTA CCAAC	25
(2) INFORMATION FOR SEQ ID NO:38:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:	
CATTTTTGCA GATGGCTTAG A	21
(2) INFORMATION FOR SEQ ID NO:39:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:	
CGAAAGGGGG GTGTGCTGCA A	21

(2) INFORMATION FOR SEQ ID NO:40:		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	Ţ	<u>.</u>
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:	:	
TAGCATTAAC GTCCAATA	18	
(2) INFORMATION FOR SEQ ID NO:41:		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 43 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	·	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:		
AAACGACGGC CAGTGCCAAG TGACGCGTGT GAAATTGTTA TCC	43	
(2) INFORMATION FOR SEQ ID NO:42:		
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 43 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:		
GGCGAAAGGG AATTCTGCAA GGCGATTAAG CTTGGGTAAC GCC	43	
(2) INFORMATION FOR SEQ ID NO:43:		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 36 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:		3
GGCGTTACCC AAGCTTTGTA CATGGAGAAA ATAAAG	36	:

(2) INFORMATION FOR SEQ ID NO:44:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 42 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
TGAAACAAAG CACTATTGCA CTGGCACTCT TACCGTTACC GT	47
(2) INFORMATION FOR SEQ ID NO:45:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 42 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	
TACTGTTTAG CCCTGTGAGA AAAGCCGCCC AGGTCCAGCT GC	42
(2) INFORMATION FOR SEQ ID NO:46:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 44 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(x1) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
TCGAGTCAGG CCTATTGTGC CCAGGGATTG TACTAGTGGA TCCG	44
(2) INFORMATION FOR SEQ ID NO:47:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 38 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	
TGGCGAAAGG GAATTCGGAT CCACTAGTAC AATCCCTG	38
(2) INFORMATION FOR SEQ ID NO:48:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 42 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	

(x1) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
GGCACAATAG GCCTGACTCG AGCAGCTGGA CCAGGGCGGC TT	42
(2) INFORMATION FOR SEQ ID NO:49:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 42 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(x1) SEQUENCE DESCRIPTION: SEQ ID NO:49:	
TTGTCACAGG GGTAAACAGT AACGGTAACG GTAAGTGTGC CA	42
(2) INFORMATION FOR SEQ ID NO:50:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 42 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	1.0
GTGCAATAGT GCTTTGTTTC ACTTTATTTT CTCCATGTAC AA	42
(2) INFORMATION FOR SEQ ID NO:51:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	0.1
TAACGGTAAG AGTGCCAGTG C	21
(52) INFORMATION FOR SEQ ID NO:52:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 68 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ix) FEATURE:  (A) NAME/KEY: misc_difference  (B) LOCATION: replace(25, "")  (D) OTHER INFORMATION: /note= "M REPRESENTS AN EQUAL MIXTURE OF A AND C AT THIS LOCATION AND AT	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
AGCTCCCGGA TGCCTCAGAA GATGMNNMNN MNNMNNMNNMN NNMNNMNNMN NGGCTTTTGC	60
CACAGGGG	68
(2) INFORMATION FOR SEQ ID MO:53:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 54 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ix) FEATURE:  (A) NAME/KEY: misc_difference  (B) LOCATION: replace(17, "")  (D) OTHER INFORMATION: /note= "M REPRESENTS AN EQUAL  MIXTURE OF A AND C AT THIS LOCATION AND AT  LOCATIONS 20, 23, 26, 29, 32, 35, 38, 41, 44 & 50"	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	
CAGCCTCGGA TCCGCCMNNM NNMNNMNNMN NMNNMNNMNN MNNMNATGM GAAT	54
(2) INFORMATION FOR SEQ ID NO:54:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 27 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
GGTAAACAGT AACGGTAAGA GTGCCAG	27
(2) INFORMATION FOR SEQ ID NO:55:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 19 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	1.0
GGGCTTTTGC CACAGGGGT	19
(2) INFORMATION FOR SEQ ID NO:56:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 63 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
AGGGTCATCG CCTTCAGCTC CGGATCCCTC AGAAGTCATA AACCCCCCAT AGGCTTTTGC	60
	63
CAC TO TO TO TO TO NO : 57 :	
(2) INFORMATION FOR SEQ ID NO:57:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 47 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	47
TCGCCTTCAG CTCCCGGATG CCTCAGAAGC ATGAACCCCC CATAGGC	47
(2) INFORMATION FOR SEQ ID NO:58:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 25 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(x1) SEQUENCE DESCRIPTION: SEQ ID NO:58:	25
CAATTTTATC CTAAATCTTA CCAAC	
(2) INFORMATION FOR SEQ ID NO:59:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	21
GCCTTCAGCC TCGGATCCGC C	
(2) INFORMATION FOR SEQ ID NO:60:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	0.3
CGGATGCCTC AGAAGCCCCN N	21

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- (2) INFORMATION FOR SEQ ID NO:61:
  - (i) SEQUENCE CHARACTERISTICS:

    (A) LENGTH: 30 base pairs

    (B) TYPE: nucleic acid

    (C) STRANDEDNESS: single

    (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

CGGATGCCTC AGAAGGGCTT TTGCCACAGG

## I CLAIM:

- A composition of matter comprising a
  plurality of cells containing a diverse population of
  expressible oligonucleotides operationally linked to
  expression elements, said expressible oligonucleotides
  having a desirable bias of random codon sequences
  produced from random combinations of first and second
  oligonucleotide precursor populations having a desirable
  bias of random codon sequences.
  - 2. The composition of claim 1, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is unbiased.
  - 3. The composition of claim 1, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is biased toward a predetermined sequence.
  - 4. The composition of claim 1, wherein said first and second oligonucleotides having random codon sequences have at least one specified codon at a predetermined position.
  - 5. The composition of claim 1, wherein said cells are procaryotes.
  - 6. The composition of claim 1, wherein said cells are  $\underline{\text{E. coli}}$ .

- for the expression of a diverse population of random peptides from combined first and second oligonucleotides having a desirable bias of random codon sequences, comprising: two vectors: a first vector having a cloning site for said first oligonucleotides and a pair of restriction sites for operationally combining first oligonucleotides with second oligonucleotides; and a second vector having a cloning site for said second oligonucleotides and a pair of restriction sites complementary to those on said first vector, one or both vectors containing expression elements capable of being operationally linked to said combined first and second oligonucleotides.
  - 8. The kit of claim 7, wherein said vectors are in a filamentous bacteriophage.
  - 9. The kit of claim 8, wherein said filamentous bacteriophage are M13.
  - 10. The kit of claim 7, wherein said vectors are plasmids.
  - 11. The kit of claim 7, wherein said vectors are phagemids.
  - 12. The kit of claim 7, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is unbiased.
  - 13. The kit of claim 7, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is diverse but biased toward a predetermined sequence.

- 14. The kit of claim 7, wherein said first and second oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 15. The kit of claim 7, wherein said pair of restriction sites are Fok I.
- peptides from diverse populations of combined first and second oligonucleotides having a desirable bias of random codon sequences, comprising: a set of first vectors

  having a diverse population of first oligonucleotides having a desirable bias of random codon sequences and a set of second vectors having a diverse population of second oligonucleotides having a desirable bias of random codon sequences, said first and second vectors each having a pair of restriction sites so as to allow the operational combination of first and second oligonucleotides into a contiguous oligonucleotide having a desirable bias of random codon sequences.
  - 17. The cloning system of claim 16, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is unbiased.
  - 18. The cloning system of claim 16, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is diverse but biased toward a predetermined sequence.
  - 19. The cloning system of claim 16, wherein said first and second oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.

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- 20. The cloning system of claim 16, wherein said combined first and second vectors is through a pair of restriction sites.
- 21. The cloning system of claim 16, wherein said pair of restriction sites are Fok I.
- 22. A composition of matter comprising a plurality of cells containing a diverse population of expressible oligonucleotides operationally linked to expression elements, said expressible oligonucleotides having a desirable bias of random codon sequences.
  - 23. The composition of claim 22, wherein said cells are procaryotes.
  - 24. The composition of claim 22, wherein said expressible oligonucleotides are expressed as peptide fusion proteins on the surface of a filamentous bacteriophage.
  - 25. The composition of claim 22, wherein said filamentous bacteriophage is M13.
  - 26. The composition of claim 22, wherein said fusion protein contains the product of gene VIII.
  - 27. The composition of claim 22, wherein said diverse population of oligonucleotides having a desirable bias of random codon sequences are produced from the combination of diverse populations of first and second oligonucleotides having a desirable bias of random codon sequences.

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- The composition of claim 22, wherein the desirable bias of random codon sequences of said oligonucleotides is unbiased.
- 29. The composition of claim 22, wherein the desirable bias of random codon sequences of said oligonucleotides is diverse but biased toward a predetermined sequence.
- The composition of claim 22, wherein said oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- A plurality of vectors containing a diverse population of expressible oligonucleotides having a desirable bias of random codon sequences.
- 32. The vectors of claim 31, wherein said oligonucleotides are expressible as fusion proteins on the surface of filamentous bacteriophage.
- The vectors of claim 31, wherein said filamentous bacteriophage is M13.
- 34. The vectors of claim 31, wherein said fusion protein contains the product of gene VIII.
- The vectors of claim 31, wherein the desirable bias of random codon sequences of said oligonucleotides is unbiased.
- 36. The vectors of claim 31, wherein the desirable bias of random codon sequences of said oligonucleotides is diverse but biased toward a predetermined sequence.

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- 37. The vectors of claim 31, wherein said oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 38. A composition of matter, comprising a diverse population of oligonucleotides having a desirable bias of random codon sequences produced from random combinations of two or more oligonucleotide precursor populations having a desirable bias of random codon sequences.
- 39. A method of constructing a diverse population of vectors having combined first and second oligonucleotides having a desirable bias of random codon sequences capable of expressing said combined oligonucleotides as random peptides, comprising the steps of:

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- (a) operationally linking sequences from a diverse population of first oligonucleotides having a desirable bias of random codon sequences to a first vector;
- (b) operationally linking sequences from a diverse population of second oligonucleotides having a desirable bias of random codon sequences to a second vector; and
- (c) combining the vector products of steps (a) and (b) under conditions where said populations of first and second oligonucleotides are joined together into a population of combined vectors capable of being expressed.

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- 40. The method of claim 39, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is unbiased.
- 41. The method of claim 39, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is diverse but biased toward a predetermined sequence.

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- 42. The method of claim 39, wherein said first and second oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 43. The method of claim 38, wherein steps (a) through (c) are repeated two or more times.

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- 44. A method of selecting a peptide capable of being bound by a ligand binding protein from a population of random peptides, comprising:
  - (a) operationally linking a diverse population of first oligonucleotides having a desirable bias of random codon sequences to a first vector;
  - (b) operationally linking a diverse population of second oligonucleotides having a desirable bias of random codon sequences to a second vector;
  - (c) combining the vector products of steps (a) and (b) under conditions where said populations of first and second oligonucleotides are joined together into a population of combined vectors;
  - (d) introducing said population of combined vectors into a compatible host under conditions sufficient for expressing said population of random peptides; and
  - (e) determining the peptide which binds to said ligand binding protein.
- 45. The method of claim 44, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is unbiased.
- 46. The method of claim 44, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is diverse but biased toward a predetermined sequence.

- 47. The method of claim 44, wherein said first and second oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 48. The method of claim 44, wherein steps (a) through (c) are repeated two or more times.

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49. A method for determining the nucleic acid sequence encoding a peptide capable of being bound by a ligand binding protein which is selected from a population of random peptides, comprising:

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(a) operationally linking a diverse population of first oligonucleotides having a desirable bias of random codon sequences to a first vector;

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(b) operationally linking a diverse population of second oligonucleotides having a desirable bias of random codon sequences to a second vector;

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(c) combining the vector products of steps (a) and (b) under conditions where said populations of first and second oligonucleotides are joined together into a population of combined vectors;

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(d) introducing said population of combined vectors into a compatible host under conditions sufficient for expressing said population of random peptides;

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(e) determining the peptide which binds to said ligand binding protein;

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(f) isolating the nucleic acid encoding said peptide; and

(g) sequencing said nucleic acid.

- 50. The method of claim 49, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is unbiased.
- 51. The method of claim 49, wherein the desirable bias of random codon sequences of said first and second oligonucleotides is diverse but biased toward a predetermined sequence.
- 52. The method of claim 49, wherein said first and second oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 53. The method of claim 49, wherein steps (a) through (c) are repeated two or more times.
- 54. A method of constructing a diverse population of vectors containing expressible oligonucleotides having a desirable bias of random codon sequences, comprising operationally linking a diverse population of oligonucleotides having a desirable bias of random codon sequences to expression elements.
  - 55. The method of claim 54, wherein said oligonucleotides are expressible as fusion proteins on the surface of filamentous bacteriophage.
  - 56. The method of claim 54, wherein said filamentous bacteriophage are M13.
  - 57. The method of claim 54, wherein said fusion protein contains the product of gene VIII.

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- 58. The method of claim 54, wherein the desirable bias of random codon sequences of said oligonucleotides is unbiased.
- 59. The method of claim 54, wherein the desirable bias of random codon sequences of said oligonucleotides is diverse but biased toward a predetermined sequence.
- 60. The method of claim 54, wherein said oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 61. The method of claim 54, wherein said operationally linking further comprising the steps of:

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- (a) operationally linking a diverse population of first oligonucleotides having a desirable bias of random codon sequences to a first vector;
- (b) operationally linking a diverse population of second oligonucleotides having a desirable bias of random codon sequences to a second vector; and
- (c) combining the vector products of steps (a) and (b) under conditions where said populations of first and second oligonucleotides are joined together into a population of combined vectors.
- 62. The method of claim 61, wherein steps (a) through (c) are repeated two or more times.

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- 63. A method of selecting a peptide capable of being bound by a binding protein from a population of random peptides, comprising:
  - (a) operationally linking a diverse population of oligonucleotides having a desirable bias of random codon sequences to expression elements;
- (b) introducing said population of vectors into a compatible host under conditions sufficient for expressing said population of random peptides; and

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- (c) determining the peptide which binds to said ligand binding protein.
- 64. The method of claim 63, wherein said population of random peptides are expressed as fusion proteins on the surface of filamentous bacteriophage.
- 65. The method of claim 63, wherein said filamentous bacteriophage are M13.
- 66. The method of claim 63, wherein said fusion protein contains the product of gene VIII.
- 67. The method of claim 63, wherein the desirable bias of random codon sequences of said oligonucleotides is unbiased.
- 68. The method of claim 63, wherein the desirable bias of random codon sequences of said oligonucleotides is diverse but biased toward a predetermined sequence.

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- 69. The method of claim 63, wherein said oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 70. The method of claim 63, wherein step (a) further comprises:
  - (a1) operationally linking a diverse population of first oligonucleotides having a desirable bias of random codon sequences to a first vector;
  - (a2) operationally linking a diverse population of second oligonucleotides having a desirable bias of random codon sequences to a second vector; and
  - (a3) combining the vector products of steps (a) and (b) under conditions where said populations of first and second oligonucleotides are joined together into a population of combined vectors.
- 71. The method of claim 70, wherein steps (al) through (a3) are repeated two or more times.

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- 72. A method of determining the nucleic acid sequence encoding a peptide capable of being bound by a ligand binding protein which is selected from a population of random peptides, comprising:
- operationally linking a diverse population of oligonucleotides having a desirable bias of random codon sequences to expression elements.
- (b) introducing said population of vectors

  into a compatible host under conditions

  sufficient for expressing said population

  of random peptides;
  - (c) determining the peptide which binds to said ligand binding protein;
  - (d) isolating the nucleic acid encoding said peptide; and
    - (e) sequencing said nucleic acid.
    - 73. The method of claim 72, wherein said population of random peptides are expressed as fusion proteins on the surface of filamentous bacteriophage.
    - 74. The method of claim 72, wherein said filamentous bacteriophage are M13.
    - 75. The method of claim 72, wherein said fusion protein contains the product of gene VIII.
    - 76. The method of claim 72, wherein the desirable bias of random codon sequences of said oligonucleotides is unbiased.

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- 77. The method of claim 72, wherein the desirable bias of random codon sequences of said oligonucleotides is diverse but biased toward a predetermined sequence.
- 78. The method of claim 72, wherein said oligonucleotides having a desirable bias of random codon sequences have at least one specified codon at a predetermined position.
- 79. The method of claim 72, wherein step (a) further comprises:

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- (a1) operationally linking a diverse population of first oligonucleotides having a desirable bias of random codon sequences to a first vector;
- (a2) operationally linking a diverse population of second oligonucleotides having a desirable bias of random codon sequences to a second vector; and
- (a3) combining the vector products of steps (a) and (b) under conditions where said populations of first and second oligonucleotides are joined together into a population of combined vectors.
- 80. The method of claim 78, wherein steps (al) through (a3) are repeated two or more times.
- 81. A vector comprising two copies of a gene encoding a filamentous bacteriophage coat protein, both copies encoding substantially the same amino acid sequence but having different nucleotide sequences.

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- 82. The vector of claim 81, wherein said filamentous bacteriophage is M13.
- 83. The vector of claim 81, wherein said gene is gene VIII.
- 84. The vector of claim 81, wherein said vector has substantially the sequence shown in Figure 5 (SEQ ID NO: 1).
- encoding a filamentous bacteriophage coat protein, one copy of said gene capable of being operationally linked to an oligonucleotide wherein said oligonucleotide can be expressed as a fusion protein on the surface of said filamentous bacteriophage or as a soluble peptide.
  - 86. The vector of claim 84, wherein said one copy of said gene is expressed on the surface of said filamentous bacteriophage.

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87. The vector of claim 84, wherein said bacteriophage coat protein is M13 gene VIII.

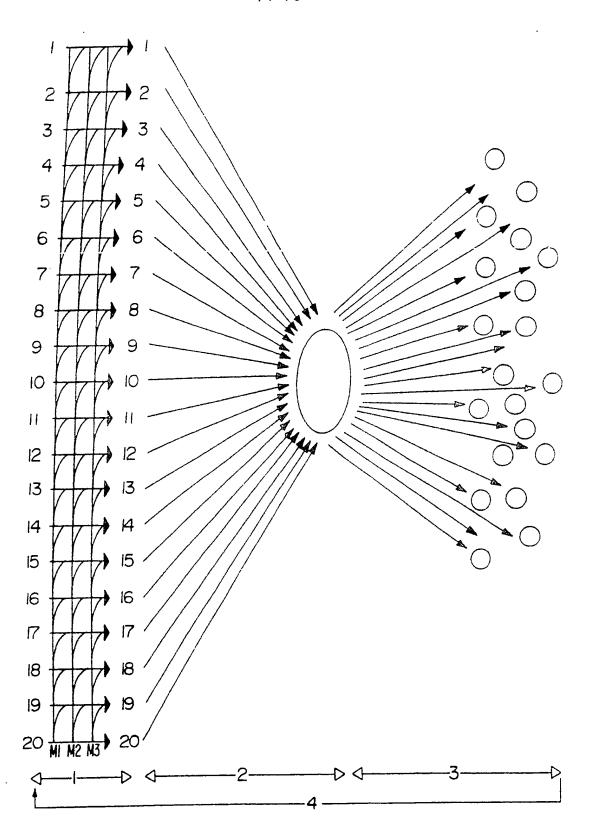


FIG. 1

## SUBSTITUTE SHEET

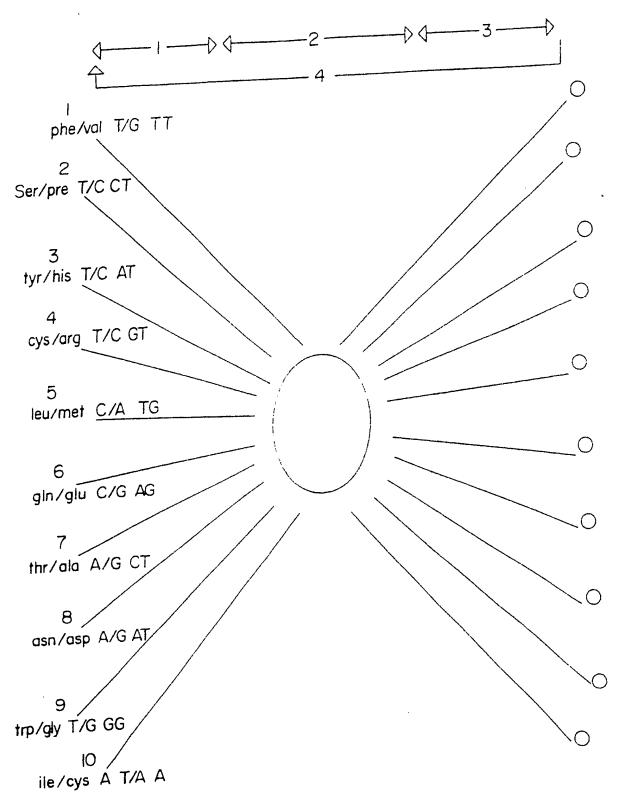
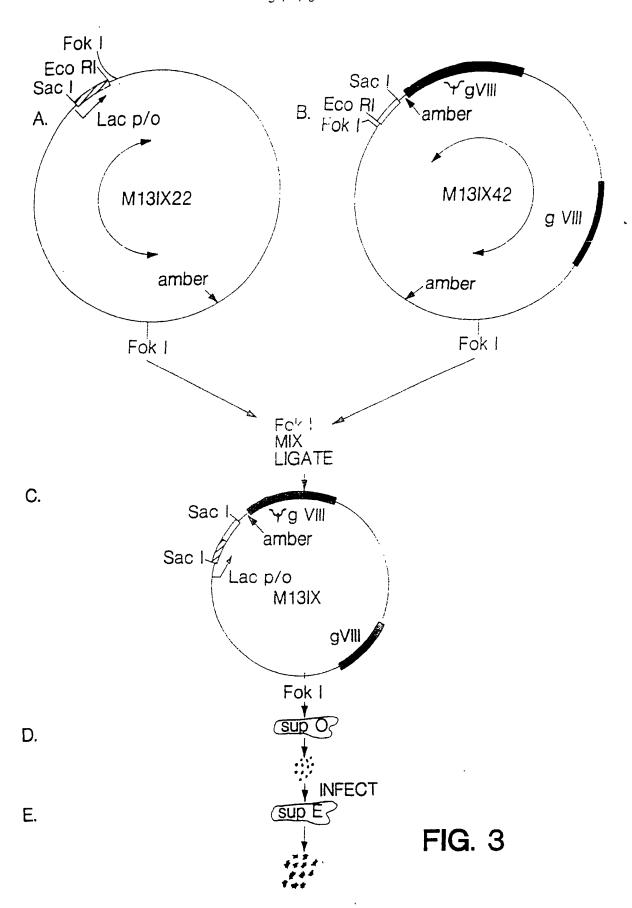


FIG. 2



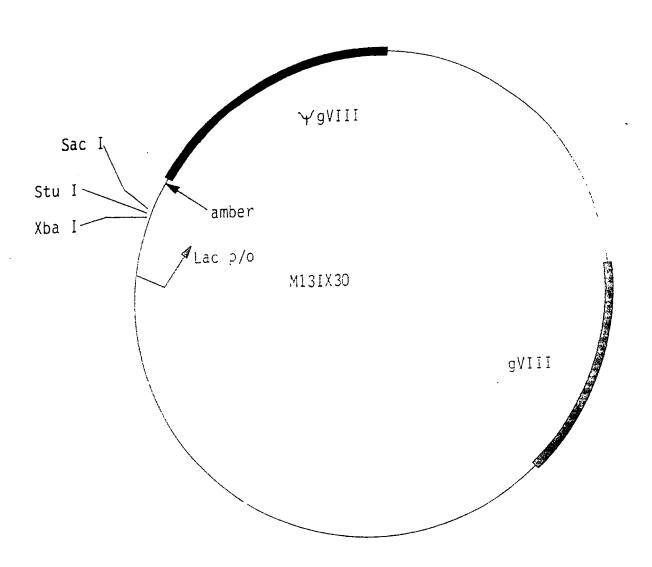


FIG. 4

FIG. 5-1

```
ATTCTTATT
AGAAGATGAA
TTGGATTTTCC
AGGTAGTCTA
ATCTAAGCTA
TAATTCAAAAT
CTTCCAAAAT
CTTCCAAAAT
CATTCAAAAT
CTTCAAAAT
ATCAGGATTA
                                                                                                                                                                                                                                                                                                                                                                             ACCTAAGCCG 4020
TGACTCTTCT 4080
ATTAATTAAT 41200
TACTGTTTCC 42200
CTTGATGTTT 43380
CTGTAAAAGGT 44500
CTTTATTTCT 44500
TTTAGAAGTAT 4560
TTTAGAAGTAT 4680
TACTCAAAAC 4680
                                                                                                                                                                                                                                         GATTITGATA AATTCACTAT
TICAAGGATT CTAAGGGAAA
                                                                                                                                                                                                                                                                                                         CTAAGGGAAA
TTGATTTTT
ATTTCGCCTCT
TTTCCCCGA
TACGCATTAT
CTTCCATTAT
CTGATAATCA
ATGATAATCT
TTGTCGAATT
                                                                                                                                                                      TCAGACCTAT
TCGCTATGTT
                               GAGGTTAAAA
   4021
                               CAGCGACGATT
AGCGACGATT
                                                                                                                                                                      AGGTTATTCA
GAAATTGTTA
                                                                                                                                                                                                                                         CTCACATATA
   4081
                                                                                                                                                                                                                                        AATGTAATTA
GAAATGAATA
TCCGTTATTG
CCTGAAAATC
GGTTCAATTC
TTGCCGCAAA
TTGCTGCAAA
   4141
                                ATTAAAAAAGG
   4201
                                                                                                                                                                       TCAGGTAATT
                              GTTTCATCAT
GTAACTTGGT
ACTGTTACTG
GTTTTACGTG
AATCCAAACA
GATAATTCCG
                                                                                                                                                                     ATCAGGCGAA
TGACGTTAAA
TGATATGGTT
                                                                                                                                                    TATTGATGAN TO CONTROL THE TATTGATGAN TO THE TATTGATGAN THE THE THE TATTGATGAN THE THE THE TATTGATGAN THE THE TAGE THE TAGE THE THE TAGE THE THE TAGE THE TAG
  4381
   4441
                                                                                                   ATCAGGATTA
CTCCTTCTGG
ATAACGTTCG
CTAAATCCTC
                                                                                                                                                                                                                                                                                                                                                                             GTTTGTAAAG 4680
ATTAGTTGTT 4740
TGATTTGCCA 4800
TGCTTTAGAT 4860
TACTGACCGC 4920
CGATGTTTTA 4980
  4501
  4561
                               TTTAAAATTA
TCTAATACTT
AGTGCACCTA
ACTGACCAGA
  4621
  4681
                                                                                                    AAGATATTTT
                                                                                                  AAGATATTTT
TATTGATTGA
CTGCTGGCTC
TTCTTATCTTC
TTCGCGCATT
TTTCAGGTCA
TGACTGGTGA
GTATTTCCAT
CCAGCAAGGC
GAAGTATTGC
CTGATTATAA
   4741
   4801
                               TTTTCATTTG
CTCACCTCTG
GGGCTATCAG
ATTCTTACGC
ACTGGTGTAG
CTGGATATA
                                                                                                                                                                                                                                                                                                                                                                             CGATGTTTTA 4980
TGTGCCACGT 50400
CGATGTTTTATT 5100
CGATTGAGCGT 51200
TAATATTGTT 52280
TGATGTTATT 52280
TGATGTTATT 55400
TGATGTCTAAAA 555800
CCGCTCTAAATCG 557600
CTCTAAATTGA 557600
CACCATCAAA 5880
   4861
4921
   4981
    5101
                                CAAAATGTAG
CTGGATATTA
ACTAATCAAA
GGTGGCCTCA
ATCCCTTTAA
TACGTGCTCG
TGTGGTGGTT
CGCTTTCTTC
GGGGCTCCCT
    5161
   5221
5281
5341
                                                                                                    CTGATTATAA
TCGGCCTCCT
TCAAAGCAAC
                                 5401
     5461
     5521
5581
      5641
5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                    5880
                                                                                                                                                                                                                                                                                                                                                                                 CTCTCAGGGC 5940
AACCACCTG 6000
GCAGCTGGCA 6060
TGAGTTAGCT 6120
TGTGTGGGAAT 6240
       5761
       5821
        5881
       5941
       6001
                                                                                                                                                                                                                                                                                                                                                                                 TGTGTGGAAT 6180
GAATTCGCAG 6240
TGCATTCAAT 6300
AGTAGTTATA 6360
TTCTTAACCA 6420
CGCAGCCTGA 6480
AGCTGGCTGG 6540
ATGCACGGTT 6600
CCGTTTGTTC 6660
AGCTGGCTAC 6720
ATGAGCTGAT 6780
AAATATTTGC 6840
         6061
        6121
6181
          6301
          6361
           6421
            6481
             6541
             6601
             6661
6721
6781
                                                                                                                                                                                                                                                                                                                                                                                                                                                             6840
                                                                                                                                                                                                                                                                                                                                                                                                                                                            6900
                                                                                                                                                                                                                                                                                                                                                                                                                                                             6960
              6841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                7080
               6901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                7140
                6961
                 7021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                7200
                                                                                                                                                                                                                                                                                                                                                                                                                                                              7260
7294
                 7081
                 7141
7201
7261
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FIG. 5-2

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FIG. 6-1

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3841 TCCGGTGTTT ATTCTTATTT AACGCCTTAT
                                                             3960
                                                             4080
                                                             4200
                                                             4260
4081
4141
4201
                                                             4440
                                                             4500
                                                             4560
4381
                                                             4680
                                                             4800
                                                             4860
4681
                                                             4920
                                                             4980
4801
                                                             5040
5100
4861
                                                   5160
5220
4981
5041
5101
5161
5221
5281
 5401
 5641
 6001
 6121
6181
 6241
 6301
 6361
 6481
                                                               7080
                                                               7140
                                                               7200
                                                               7260
```

FIG. 6-2

			_			
	1	0   2	0 i 3		0   5	0 1 60
	1 AATGĊTACŤ			Č ACCTTTTCA	G CTCGCGCCC	C AAATGAAAAT 60
_ '						Č TAAATCTACT 120
, 6.	1 ATAGCTAAA					• • • • • • • • • • • • • • • • • • • •
12.					C AGCAATTAA	
18.			T TGAGCTACA	G CACCAGATT	C TACTCTCTA	
24.	1 TCTGCAAAA			<u>G CAATTAAAG</u>	G TACTOTOTA	
30.	1 TTGGAGTTT			T GAAGCTCGA	<u>A TTAAAACGC</u>	G ATATTTGAAG 360
36.	1 TCTTTCGGG	C TTCCTCTTA			T TIGCTICIG	
42	1 CAGGGTAAA	3 ACCTGATTT	T TGATTTATG	G TCATTCTCG	T TTTCTGAAC	T GTTTAAAGCA 480
48]		ATTCAATGA			G TATTGGACG	C TATCCAGTCT 540
54]						C TCGCTATTTT 600
601						
661	AATTCCTTT			GTTGAATGT		
721	TOTTOCCAAC					
781	TCTTCCCAAC		O A A A C C A T C T C	1 CCAGIICIIA		TCTGGTGTTT 900
841	CAATGATTAA	AGTTGAAATT				TTGGGTAATG 960
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG		
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG TCTTTCAAAG	ATGAAGGTCA	GCCAGCCTAT	
1021	TGTACACCGT	TCATCTGTCC	ILITICAAAG	TTGGTCAGTT		ATGATTGACC 1080
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG		CACAATTTAT 1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT 1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA 1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT 1320
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA 1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA 1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA 1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT 1560
1561	<del></del>	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCCTTTAGT	TGTTCCTTTC 1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA 1680
	TTTACTAACC	TCTGGAAAGA	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT 1740
1681	TTTACTAACG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA 1800
1741	CTGTGGAATG			AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT 1860
1801	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	ACTAAACCTC	CTGAGTACGG	TGATACACCT 1920
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA 1980
1921	ATTCCGGGCT	ATACTTATAT		GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT 2040
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GCATTAACTG	TTTATACGGG	CACTGTTACT 2100
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	CAGTACACTO	CTGTATCATC	AAAAGCCATG 2160
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA 2220
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT 2280
2221	GATCCATTCG	TTTGTGAATA	TCAAGGCCAA TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT 2340
	GCTGGCGGCG	GCTCTGGTGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT 2400
	GGCGGTTCTG	AGGGTGGCGG	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT 2460
2401	GATTTTGATT	ATGAAAAGAT	CGCTAAAGGC	AAACTTGATT	ČTGTCGCTĂĈ	TGATTACGGT 2520
2461	GAAAACGCGC	TACAGTCTGA	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT 2580
	GCTGCTATCG	ATGGTTTCAT	TTCCCAAATG	CCTCAACTCG	ĞTĞÂCĞĞTĞÂ	TAATTCACCT 2640
2581	GGTGATTTTG	CTGGCTCTAA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT 2700
	TTAATGAATA	ATTTCCGTCA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA 2760
2701	TITGICTITA	GCGCTGGTAA	ACCATATGAA TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTITICTACE 2820
2761 2821	TTCCGTGGTG	TCTTTGCGTT	TÄÄGGÄGTÖT	TAATCATGCC	ACTICITITE	GGTATTCCGT 2880
7871	TTTGCTAACA	TACTGCGTAA	TTCCTTCTCC	TAACTTTGTT	AGTTCTTTTG	CTTACTTTTC 2940
2881	TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	CTATTTCATT	ĞTTTCTTĞCT	CTTATTATTE 3000
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	CGCTCAATTA	CCCTCTGACT 3060
3001	GGCTTAACTC TTGTTCAGGG	AATTCTTGTG	GGTTATCTCT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC 3120
3061	1 161 1 LAGGG	TGTTCAGTTA	ATTCTCCCGT	ACCTTAAACA	AAAAATCGTT	TCTTATTTGG 3180
3121 3181	TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	CTAACTGGCA	AATTAGGCTC	TCTTATTTGG 3180 TGGAAAGACG 3240
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTT	GTAACTGGCA	CCTCCAAAAT	AGCAACTAAT 3300
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	GCCTCGCGTT 3360
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT 3360 CGGTAATGAT 3420
3361	CTTAGAATAC	LGGATAAGCC	IILIAIAILI	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT 3420 TTGGTTTAAT 3480
3421	CTTAGAATAC TCCTACGATG	AAAATAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	ACATGCTCGT 3540
3481	ACCCGITCIT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	TAAACAGGCG 3600
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT TGTCGTCGTC	CTATTGTTGA	
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT		TGGACAGAAT	TACTTTACCT 3660 TAAATTACAT 3720
3661 3721	TTTGTCGGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCTCTGCC	
3721	GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT 3780

FIG. 7-1

	1 10 1 20 1 20 1	7441 ACOT 10   20   30   40 ,	7/41 ACCTT	7521 COTCTCAGGC TTTATTGCTT AATTIIGUIA AIICIIIGCC 11000 7445	7531 CTTCTCCCGC AAAAGIAIIA CAGGGTCCTA AFFCTTTCCC TTGCCTGIAI GAIIIAIIGO 4778	/201 GUALLOGGIC AAAACTATTA CAGGGTCALA ALGULILIOG TREESCRICTAT GATTTATTGG /440	3261 GCATTGCATT TAAAATATAT GAGGGTCCTA ATGTTTTTGG TACAACCGAT TAGGCTTAG 7000
7261 GCATTGCATT TANAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	7261 GCATTGCATT TANAAGTATTA CAGGGTCATA ATGTTTTTIGG TALAACCGAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	7261 GCATTGCATT TANAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	7261 GCATTGCATT TANAAGTATTA CAGGGTCATA ATGTTTTTIGG TALAACCGAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445	7261 GCATTGCALL AAAAGTATTA CAGGGTCATA ATGTTTTTIGG TACAACGTAT GATTTATTGG 7440	7261 GCATIGUAL LAAAAATATTA CACCCTCATA ATGTTTTTIGG LACAACCGAL CLATTATTCC 7440		
7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTGG TACAACCGAT TTAGCTTTAI 7380 7261 GCATTGCATT TAAAATATAT GAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAI 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7441 ACGTT	7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTGG TACAACCGAT TTAGCTTTAI 7380 7261 GCATTGCATT TAAAAATATAT GAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAI 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7441 ACGTT	7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTGG TACAACCGAT TTAGCTTTAI 7380 7261 GCATTGCATT TAAAATATAT GAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAI 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7441 ACGTT	7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTGG TACAACCGAT TTAGCTTTAI 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAI 7440 7321 CTTCTCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445	7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTGG TACAACCGAT TTAGCTTTAI 7380 7261 GCATTGCATT TAAAATATAT GAGGGTCATA ATGTTTTTGGC TGCCTGTAT GATTTATTGG 7440	7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTGG TACAACCGAT TTAGCTTTAI 7380	2201 GLOATICEATT TABLATATAT GAGGGTTCIA AAAATTTTCC TOCALCCGAT TTAGCTTTAI 2380	
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TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAG 7200 7081 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAGG 7330 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TACAACCGAT TTAGCTTTAT 7381 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6901 GGCGTTCCTA TTGGTTAAAA AATGATTG CTTATACAAT CTTCCTGTTT TIGGGGCTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TIGGGGCTT 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAG 7200 7081 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TACAACCGAT TTAGCTTTAT 7380 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTG CTTATACAAT CTTCCTGTTT TIGGGGCTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTCTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445	6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTTG CTTATACAAT CTTCCTGTTT 11GGGGCTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG CCTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7081 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CTTTCCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTGAC TGAAATATAT GAGGGTCATA AAAATTTTAG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT GATTTATTGG 7440	6901 GGCGTTCCTA TTGGTTAAAA AATGAGTTG CTTATACAAT CTTCCTGTTT TIGGGGCTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7081 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTCAG 7260 7141 AAATAGCTAC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGACT TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTAG TACAACCGAT TTAGCTTTAT 7380	6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTTG CTTATACAAT CTTCCTGTTT TIGGGGCTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTT TIGGGGCTT 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TGCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA CATATTGATG 7200 7081 ATTCTCTTGT CCTCCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CTTTCCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7380	6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTTG CTTATACAAT CTTCCTGTTT TTGGGGCTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGATAT CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CTTTTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAGG 7320 7321 ATTAATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATTATTA TCCTTGCGTT GAAATAAAGG 7320
6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 GAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAAATCTTAA TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT CAGGGTCATA ATGTTTTTTGC TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6901 GCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAAATAGCTAC CCTTTCCGGC CTTTCTCACC CTTTTTGAAAC CATTACTCAG 7260 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTTTTT	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 GAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAAATCTTAA TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT CAGGGTCATA ATGTTTTTTGC TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA AATTTTTGCC TTGCCTGTAT GATTTATTGG 7445	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CATATTCAAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAGATTTTAG TCCACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGTCATA ATGTTTTTGG TTGCCTGTAT GATTTATTGG 7440	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6901 GAAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CATTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACTAGAAC GGTTGAATAT CATTTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTTATA 7380 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT TAAAATATAT GAGGGTTCTA AAAATTTTTAG TACAACCGAT TTAGCTTTTAT 7440	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGTA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TCGCTCCAGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTA TCCTTGCGTT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7380	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CCGTTCCTAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTAGAAC GTTTACCTACA CATTACTCAG 7260 7141 AAATAGCTAC CTTTCCGGC CTTTCTCACC CTTTTGATTATTA TCCTTGCGTT GAAATAAAGG 7320
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CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAAATAGCTAC CCTTTCCGGC CTTTCTCACC CTTTTTGAAAC CATTACTCAG 7260 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTTTTT	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 GAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAAATCTTAA TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT CAGGGTCATA ATGTTTTTTGC TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA AATTTTTGCC TTGCCTGTAT GATTTATTGG 7445	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CATATTCAAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAGATTTTAG TCCACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGTCATA ATGTTTTTGG TTGCCTGTAT GATTTATTGG 7440	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6901 GAAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CATTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACTAGAAC GGTTGAATAT CATTTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTTATA 7380 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT TAAAATATAT GAGGGTTCTA AAAATTTTTAG TACAACCGAT TTAGCTTTTAT 7440	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGTA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TCGCTCCAGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTA TCCTTGCGTT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7380	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CCGTTCCTAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTAGAAC GTTTACCTACA CATTACTCAG 7260 7141 AAATAGCTAC CTTTCCGGC CTTTCTCACC CTTTTGATTATTA TCCTTGCGTT GAAATAAAGG 7320
6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 GAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAAATCTTAA TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT CAGGGTCATA ATGTTTTTTGC TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6901 GCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAAATAGCTAC CCTTTCCGGC CTTTCTCACC CTTTTTGAAAC CATTACTCAG 7260 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTTTTT	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 GAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAAATCTTAA TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTGATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAAATTTTTTG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT CAGGGTCATA ATGTTTTTTGC TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT TAAAATAAAA	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CATATTCAAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTCATA AAGATTTTAG TCCACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGTCATA ATGTTTTTGG TTGCCTGTAT GATTTATTGG 7440	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6901 GAAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CATTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACTAGAAC GGTTGAATAT CATTTACTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTGAC TGTCTCCGGC CTTTCTCAC AAAATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTTAT 7380 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA ATGTTTTTGG TACAACCGAT TTAGCTTTTAT 7440	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGTA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TCGCTCCAGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTA TCCTTGCGTT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7380	6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TIGGTTAAAA AATGAGCTGA TITAACAAAT CTTCCTGTTT TTGGGGCTTT 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CCGTTCCTAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTAGAAC GTTTACCTACA CATTACTCAG 7260 7141 AAATAGCTAC CTTTCCGGC CTTTCTCACC CTTTTGATTATTA TCCTTGCGTT GAAATAAAGG 7320
6721 GTCGTCCCCT CAAACTGGCA GATGLACGGT TACCACGGAGA ATCCGACGGG TIGITACICG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TAAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TAAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6721 GTCGTCCCCT CAAACTGGCA GATGLACGGT TACCACGGAGA ATCCGACGGG TIGITACICG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGTTGA CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7020 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCCAG 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6721 GTCGTCCCCT CAAACTGGCA GATGLACGGT TACCACGGAGA ATCCGACGGG TIGITACICG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TAAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TAAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCACGGAGA ATCCGACGGG TIGITACICG 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAAT TATTTTTGAT 6900 6721 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGGAGGCC AGACGCGAAT TATTTTTGAT 6900 6721 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGGAAAA ATTTAACGCG AATTTTAACA 6960 6721 GCCACATTTA ATGTTGATGA AAATGATTTG CTTATACAAAA ATTTAACGCG AATTTTAACA 6960 6721 CTCACATTTA ATGTTAAAA AATGATTTG CTTATACAAAA CTTCCCTGTTT TTGGGGCTTT 7020 6721 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TACCATTGAT CATATTGATG 7240 7021 TCTGATTATC AACCGGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7240 7031 ATTCTCTTGAT TGCTCCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7250 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTTACA CATTACTCAG 7250 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCAC AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTATT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTTCATA ATGTTTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445	6721 GTCGTCCCCT CAAACTGGCA GATGATGGT TACCACGGAGA ATCCGACGGG TIGITACICG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTGGT CCCACGGAGG AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACCATTTA ATGTTGATGA AAGTATTTTG CTTATACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGTGA TTTAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT TTTACGATTA CCGTTCATCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATTATTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTTTTT	6721 GTCGTCCCCT CAAACTGGCA GATGLACGGT CCCACGGAGA ATCCGACGGG TIGITACICG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TAAACAAAA ATTTAACGCG AATTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAA AATGAGTTGA CTTATACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CCTTATACAAT TTTACGATTA CCGTTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGAC TGTCTCCGGC CTTCTCACA AAAATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCACACCGAT TTAGCTTTATT 7340	6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCACGGAGA ATCCGACGGG TIGITACICG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGAC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CAGTTCATCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CTTTCCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7380	6721 GTCGTCCCCT CAAACTGGCA GATGLACGGT CCCACGGAGA ATCCGACGGG TIGITACICG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTGTT CCCACGGAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAAAT TAAATATTTG CTTAATACCAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CTCTCCGGC CTTTCTCACC CTTTTTGATTATTA TCCTTGCGTT GAAATAAAGG 7320 7320 6764TTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATTATTA TCCTTGCGTT GAAATAAAAGG 7320
6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACCGGAGA ATCCGACGGG TTGTTACTC 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGTATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT AGCCTTTGTA GATCTCCAG 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTTAGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAAATATAT CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7441 ACGTT	6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACCGGAGA ATCCGACGGG TTGTTACTC 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTAAACAAAA ATTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTAACAATA CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTTAGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7441 ACGTT	6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACCGGAGA ATCCGACGGG TTGTTACTC 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGTATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT AGCCTTTGTA GATCTCCAG 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTTAGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAAATATAT CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7441 ACGTT	6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CTGTTACTCG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCCACGGAGA ATCCGACGGG TTGTTACTGA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6861 GCCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACCAAAA ATTTAACGCG AATTTTAACA 6960 6861 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGGATT TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCAC CTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AAATTTTCCTA AATTTTTTGCC TTGCCTGTAT GATTTATTGG 7445	6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACTG 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGTGAGCTGA TTTAACCAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACCATTA ATGGTTAAAAA AATGAGCTGA TTTAACCAAAA CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGTTG CTTAATCAAAA CCGTTCATCG 7080 6901 AAATATTAAC GTTTACCAATT TAAATATTTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC TTTACCTACA CATTACTCAG 7220 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGGATC TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCAT TAAAATATTA CAGGGTCATA ATGTTTTTGGC TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAAGTATTA CAGGGTCATA ATGTTTTTGGC TACAACCGAT TTAGCTTTAT 7380	6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CTGTTACTCG 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCCACGGAGA ATCCGACGGG TTGTTACTG 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTAACA 6960 6841 CTCACATTTA ATGTTGATAA AATGAGTTGA CTTTAACAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CAGTTCATCAA 7140 7021 TCTGATTATC AACCGGGGTA CATAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320	6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAAA AATTAACAAAA AATTAACAAAAA CTTTAACAAAA CTTTAACAAAA CTTTAACAAAA CTTTAACAAAA CTTTAACAAAA CTTTAACAAAT CTTACCTGTT TTGGGGCTTT 7020 6961 AAATTATTAAC GTTTACAAAT TAAAATATTTG CTTATACAAAT TTTACCGATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATAATTTAAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7380	6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACL 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AACCGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGTTGA CTTTAACAAAT CTTCCTGGTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAATATTTG CTTAACTAGT TTTACCGATTA CATTTGATG 7200 7081 ATCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATCTCTTGT TTGCTCCAGA CTCTCCAGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATTTGATG 7200 7141 AAATAGCTAC CTCTCCAGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAGG 7320 7321 GTCATTTGAC TGTCTCCAGC CTTTCTCACC CTTTTTGATT TCCTTGCGTT GAAATAAAAGG 7320
6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACAGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACAGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACAGTAACC 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTACAATT TAAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7260 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA AATTTTTGCT TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGAACAGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCTT CAAACTGGCA GATGCACGGGT TACCGAGGA ATCCTGAGG TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGG AATTTTAACA 6961 AAATATTAAC GTTTACAATT TAAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATAATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAAATAAAGG 7320 7321 CTTCTCCCGC AAAAAGTATTA CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7341 ACGTT AAAATATAT CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7340 7341 ACGTT AAAAGTATTA CAGGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AAATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445 7441 ACGTT	6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACAGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACAGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACAGTAACC 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTACAATT TAAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7260 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA AATTTTTGCT TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACAGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACAGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACAGTAACC 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACTACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAA CTTCCTGTTT TTGGGGCCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGGCTTT 7080 7021 TCTGATTATC AACCGGGGTA CATTATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTCATA ATGTTTTTAG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445	6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTGGCTGGCTGGCTGGCAGGGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGGC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGGAGCTGA TTTAACAAAA ATTTAACGCG ATTTAACAA 6960 6841 CTCACATTTA ATGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG ATTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAAATATTTG CTTATACAAT CTTCCTGTTTATA CAATTCATCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC CTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCCTACA CATTACTCAG 7320 7201 GTGATTTGAC TAAAATATTA CAGGGTCATA AAAATTTTA TCCTTGCGTT GAAAATAAAAGG 7320 7261 GCATTGCCT AAAAATATTA CAGGGTCATA ATGTTTTTGG TTGCCTGTAT GATTTATTGG 7440	6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACAGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTGGCTG TACGATGCGC CCATCTACAC CAACAGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACAGTAACC 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTATTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTTAACAAAA ATTTAACGGG AATTTTAACA 6960 6960 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA CTTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAAATATTTG CCTTATACAAT TTTACGATTA CCGTTCCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATGAT CAGCTTGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGACT TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7440	6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACAGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTGGCTG GATGCACGGT TACGATGCGC CCATCTACAC CAACAGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GACGTTTGTT CCCACGGAGA ATCCGACGGG TATTTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTTAACA 6960 6841 CTCACATTTA ATGTTAAAAT TAAATATTTG CTTATACAAAT CTTCCTGTTT CCGTTCATCG 7080 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCCAA 7200 7081 ATTCTCTTGT TTGCCTCCAGA CTCTCAGGCA ATGACCTGAT CGTTGAATAT CATTTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTCCGTT TTAGCTTTAT 7380	6601 GATCGCCCTT CCCAACAGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACAGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACAGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACAGTAACC 6840 6721 GTCGCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACTGG 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGGG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATAA AATGAGCTGA TTTAACAAAA ATTTAACGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG ACATGCTAGT TTTACGATTA CAGTTCATA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT AGCCTTTGATA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7320 7320 6764 6764 6764 6764 6764 6764 6764 676
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GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTTTTTT	6541 TAAATTATTC AAAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTGAGGC CGATACGGTC 6720 6661 GCACCAGAGAG CGGTAGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6661 GCACCAGAGAG CGGTCAGCCGGA AAGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGGC CCATCTACAC TATTTTTGAT 6900 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTATAC GTTTACAATT TAAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7220 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TCACACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT CAGGGTCATA ATGTTTTTGC TACAACCGAT TTAGCTTTAT 7380 7381 GCTCTCGGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6541 TAAATTATIC AAAAAAATTATA GCGCAGCCTG AATGGCGAAT GGCGCTAGGC CAACGTAACC 6720 6601 GATCGCCCTT CCCAACAGGT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGT CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TATTTTTGAT 6900 6841 CTCACATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6901 GGCGTTCCTA TTGGTTAAAAA AATGTATTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC CATTACTCAG 7220 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TCCTTGCGTT GAAAATAATAT CAGGGGTCATA ATGTTTTTA TCCTTGCGTT TAAAAATATAT CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7445	6541 TAAATTATTC AAAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTAGGC CGATACGGTC 6720 6601 GATCGCCCTT CCCAACCAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6661 GCACCAGAAG CGGTGCCAGA AAGCTGGCTG GAGTGCGGATC TTCCTGAGGC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACCTGGCA GATGCACGGT TACGATGCGC CCATCTACAC TTGTTACTCG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCTTAACGA AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGGA AATTTTAACA 6960 6841 CTCACATTTA ATGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGATT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CATTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCGATTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7320 7261 GCATTGACT TAAAATATAT GAGGGTCATA AAAATTTTAG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGGC TTGCCTGTAT GATTTATTGG 7440	6541 TAAATTATTC AAAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTAGGC CGATACGGTC 6720 6601 GATCGCCCTT CCCCAACCGGT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCGATGCGC CCATCTACACG TTGTTACTCG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTAACA 6960 6841 CTCACATTTA ATGTTGATAA AATGAGCTGA TTTAACAAAA ATTTACGTTTT TTGGGGCCTTT 7020 6961 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA CTTATACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAAAATATATA GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7340	6541 TAAATTATU ARAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTAGC CGATACGGTC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCAGA AAGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC TATTTTTGAT 6900 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTAACA 6960 6841 CTCACATTTA ATGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCGA AATTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTACGGTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTATCACA CATTACTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTCGAC TGACAATATAT GAGGGTTCTA AAAATTTTA TCCTACCGAT TTAGCTTTAT 7380	6541 TAAATTATU AAAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTAGC CGATACGGTC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCGATGCGC CCATCTACACG TTGTTACTCG 6840 6721 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG AATTTTAACA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACCA 6960 6861 CTCACATTTA ATGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACCATT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGAAT CATATTGATG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGATT TCCTTGCGTT GAAATAAAAGG 7320
6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TICTTAGCAAT GGCGCTTTGC CTGGTTTCCG 6660 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACAAT TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 AAATATTAAC GTTTACAATT TAAAATATTTG CTTAACAAAA TTTACCAATT TTGGGGCTTT 7020 6961 AAATATTAAC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7220 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAAAATATAT TAAAATATAT CAGGGTCATA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAAATATAT CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TICTTAAGCA GGCGCTTTGC CTGGTTTCCG 6660 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACAAT TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 AAATATTAAC GTTTACAAAT TAAATATTTG CTTATACAAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAG 72200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TTGCCTGTAT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTTTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TICTTAGCAAT GGCGCTTTGC CTGGTTTCCG 6660 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACAAT TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 AAATATTAAC GTTTACAATT TAAAATATTTG CTTAACAAAA TTTACCAATT TTGGGGCTTT 7020 6961 AAATATTAAC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7220 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGAAAATATAT TAAAATATAT CAGGGTCATA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAAATATAT CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TICTTAGCA GGCGCTTTGC CTGGTTTCCG 6560 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC AATGGCGCAAT TICCTGAGGC CGATACGGTC 6720 6601 GACCAGAAG CGGTGCCGGA AAGGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCTT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAAACAAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAATATTTG TTTAACAAAT TTTAACAAT TTTAACAAT TTTAACAAT TTTAACAAT TTTACCAATT TAAATATTTG ACATGCTAGT TTTACCGATTA CCGTTCATCGA 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7200 7081 ATTCTCTTGAT TTGCTCCAGA CTTTCTCACC TTTACCAATAT CATATTGATG 7200 7081 ATTCTCTTGAC TGCCTCCGGC ATTAATTTAT CAGGCTAGAAC GGTTGAATAT CATATTGATG 7200 7081 ATTCTCTTGAC TGCCTCCGGC CTTTCTCACA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7220 7261 GCATTGCATT TAAAATATAT GAGGGTTCATA AAAATTTTTA TCCTTGCCTTAT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GAATTATTGG 7445 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA AATTTTTGCT TGCCTGTAT GATTTATTGG 7445 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA AATTTTTGCT TTGCCTGTAT GATTTATTGG 7445	6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TICTTAGCAAT GGCGCTTTGC CTGGTTTCCG 6660 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CGATACGGTC 6720 6601 GATCGCCCT CAAACTGGCA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACCGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCTT CAAACTGGCA GATGCACCGGT TACGATGCGC ATCCGACGGG TTGTTACTCG 6840 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA AATTAACAAAA AATTAACAAAA AATTAACAAAA AATTAACAAAA AATTAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAATATTTG CTTATACAAAT TTTACGATTA CAGTTCATCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAATATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAATATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAATATTA CAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCATC AAAAGTATTA CAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAAATATTA CAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAAGTATTA CAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAAATATAT CAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT AAAAATATAT CAGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTATTATTAGCTTTATATTAGATGATAAATATAT CAGGGTCATA ATGTTTTTTTTTT	6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TICTIAAGCA GGCGCTTTGC CTGGTTTCCG 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC AATGGCGAAT GGCGCTTTGC CGATACGGTC 6720 6661 GACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGATC TTCCTGAGGC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACTCG 6840 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATAA AATGAGCTGA TTTAACAAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTAACAATT TAAAATATTTG CTTATACAAAA CTTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAAATATTTG CTTATACAAAA AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCCAG 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7320 7261 GCATTGAT TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGAT TTAGCTTTAT 7380 7361 GCATTGCATT TAAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7380	6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TICTIAAGGA GGCGCTTTGC CTGGTTTCCG 6660 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CGATACGGTC 6720 6601 GATCGCCCT CAAACTGGCA AAGCTGGCTG GAGTGCGGATC TTCCTGAGGC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC ATCCGACGGG TTGTTACTCG 6840 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTAACGCG AATTTTAACAA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAA ATTAACAAT TTAGGGGCTTT 7020 6961 AAATATTAAC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCGATTA CATATTGATG 7200 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTTGTA GATCTCCAA 7140 7081 ATTCTCTTGT TTGCTCCAGG ATTAATTTAT CAGGTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGGTAGAAC GATTAACAAC CATTACTCAG 7320 7201 GTGATTTGAC TGCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGCTCCGGC TTAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGAT TTAGCTTTAT 7380	6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TICTTAAGCA GGCGCTTTGC CTGGTTTCCG 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACCGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTAACAATT TAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTTCAA GTTTACAAAT TAAATATTTG CTTATACAAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7260 7261 AAATATGCTAC CTTTCCGGC CTTTCTCACC CTTTTTGATC TCCTTGCGTT GAAATAAAAGG 7320 7321 AAATATTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATC TCCTTGCGTT GAAATAAAAGG 7320 7321 AAATATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTTGATC TCCTTGCGTT GAAATAAAAGG 7320
6481 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTA ATTAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGAT TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCCACGGT TACCGATGCGC CCATCTACAC CAACGTAACC 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTGTT CCCACGGAGA ATCCGACGGG TTGTTACACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA AATTTAACAGG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAC GTTTAAAAA AATGAGTTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC TGCCTCCAGA CTCTCCAGC CTTTCTCACC CTTTTGAATA TCCTTACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT TAAAATATAT GAGGGTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6481 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTA ATTAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGTC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCAGGAGA ATCCGACGGG TTGTTACTCG 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTGTT CCCACGGAGA ATCCGACGGG TTTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGGC AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAC GGTTTAAAAA AATATATTG CTTATACAAAT TTTACCGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCGATTA CATATTGATG 7200 7081 ATTCTCTTGT TTGCCCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAG 7260 7141 AAATAGCTAC TGCCTCCAGA CTCTCCAGGCC CTTTCTCACC CTTTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TGCCTCCAGG CTTTCTCCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7260 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAC TGCCTCCAGA CTCTCCAGC CTTTCTCCCC CTTTTGCCTTACA GATTTATTGG 7440 7321 CTTCTCCCGC AAAAAGTATTA CAGGGTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6481 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTA ATTAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGAT TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCCACGGT TACCGATGCGC CCATCTACAC CAACGTAACC 6840 6781 TATCCCATTA CGGTCAATCC GCCGTTGTT CCCACGGAGA ATCCGACGGG TTGTTACACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA AATTTAACAGG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAA AATGATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAC GTTTAAAAA AATGAGTTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC TGCCTCCAGA CTCTCCAGC CTTTCTCACC CTTTTGAATA TCCTTACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCAT TAAAATATAT GAGGGTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7441 ACGTT	6421 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTATA ATAGCGAAGA GGCCCGCACC 6500 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6500 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGA ATCCGACGGG TTGTTACTCG 6840 6721 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAATATTTTG CTTATACAAAT TTTACCGATTA CCGTTCATCG 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTTG ACATGCTAGT TTTACCGATTA CATATTGATG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGAT TGCTCCAGA CTCTCCAGCCA TTATTTTTA CAGATTTTTA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCCGC CTTTCTCACC CTTTTTTTTTA TCCTTACAATTTAT CATATTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTTCATA ATTCTTTTGCC TTGCCTGTAT GAATTATTGG 7445 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCT AATTTTTTTTTT	6421 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTATA ATTAGCGAAGA GGCCCGCACC 6500 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6560 6541 TAAATTATC AAAAAGTTTA CGAGCAAGGC AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6560 6541 GACCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGATC TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACCGT TACGATGCGC AACCGGAGAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACCGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACCGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAAATATTTG CTTATACAAAT TTTACGATTA CAGTTCATCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGCC ATTAATTTAT CAGCTAGAAC TTTACCCTACA CATTACTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTTAGATC TTTACCCTACA CATTACTCAG 7320 7261 GTGATTGAC TAAAATATAT GAGGGTTCATA AAAATTTTTA CAGACCGAT TTAGCTTTAT 7380 7261 GCATTGCCT AAAAATATTA CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTG AAAAGTATTA CAGGGGTCATA ATGTTTTTTGG TACAACCGAT TTAGCTTTAT 7380	6481 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTATATA ATAGCGAAGA GGCCCGCACC 6500 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6560 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 GACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGTATTTTG CTTATACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGTATTTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAAATATTTG CACATGCTAGT TTTACCGATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGG CTTCCAGCC ATTAATTTAT CAGCTTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAAACTATA TAAAATTTAT CAGCGTTCATA AAAATTTTA TCCTTGCGTT GAAAATAAAAGG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCATA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7340	6481 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTAAAA ATAGCGAAGA GGCCCGCACC 6500 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6560 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT CTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC ATCCGACGGG TTGTTACTCG 6840 6721 GTCGTCCCTTTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACCA 6960 6841 CTCACATTTA ATGTTGATAA AAGGATTTTG CTTATACAAT TTTAGCGGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAAATATTTG CTTATACAAT TTTACCGATTA CATTTCATCG 7080 7021 TCTGATTAAC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTTGTA GATCTCCAA 7140 7081 ATTCTCTTGT TTGCTCCAGC ATTAATTTAT CAGCTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTTTAT 7380 7201 GTGATTCGAC TTGACATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGAT TTAGCTTTAT 7380 73201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTACCGAT TTAGCTTTAT 7380	6421 TGAGTACATT GGCTACGCTT GGGCTATGGI AGTAGTATATA ATAGCGAAGA GGCCCGCACC 6500 6541 TAAATTATIC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6560 6541 TAAATTATIC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAAAT TAAATATTTG CTTATACAAAT TTTACCGATTA CCGTTCCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGATC TCTTGCGTT GAAATAAAGG 7320
6421 CTAGGCTGAA GGCGATGACC CIGCTAAGGC AGTACTTATA GTTGGTGCTA CCATAGGGAI 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6560 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6660 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAC CCATCTACAC CAACGTAAACC 6780 6661 GCACCAGAAG CGGTCAATCC GCCGTTTGTT CCCCACGGAGA ATCTGACGG TTGTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTTAACAAAA ATTTAACGCGA AAATTTAACA 6960 6901 GGCGTTCCTA CTTTTACAATT TAAATATTTG CTTTAACAAAA ATTTACGATTA CCGTTCATCG 7080 6901 GGCGTTCCTA CACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TTGCTCCGGC CTTTCTCACC CTTTTTGAATC TTTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TTGCTCCGGC CTTTCTCACC CTTTTTTTTTT	6421 CTAGGCTGAA GGCGATGACC CIGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGA 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGA 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAC CCATCTACAC CAACGTAAACC 6780 6661 GCACCAGAAG CGGTCAATCC GCCGTTTGTT CCCCACGGAGA ATCCGACGGG TTGTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTTAACAAAA ATTTAACGCG AAATTTAACAA 6960 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTTAACAAAA ATTTAACGATTA CCGTTCATCG 7080 6901 GGCGTTCCTA TTGGTTAAAAA CATATGATTG CTTATACAAT CTTCCTGTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTT GATCTCCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTTGAT AGCCTTTGTA GATCTCTCAA 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCATT GAAATAAAAGG 7320 7261 GCACTTGAT TAAAATATAT GAGGGTTCTA AAAATTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCACCAGAGC TTTATTGCTT AATTTTGCTA ATTCTTTTGCC TTGCCTGAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTTGCC TTGCCTGAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTTGCC TTGCCTGAT GATTTATTGG 7440 7445 ACGTT	6421 CTAGGCTGAA GGCGATGACC CIGCTAAGGC AGTACTTATA GTTGGTGCTA CCATAGGGAI 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6560 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6660 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAC CCATCTACAC CAACGTAAACC 6780 6661 GCACCAGAAG CGGTCAATCC GCCGTTTGTT CCCCACGGAGA ATCTGACGG TTGTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTTAACAAAA ATTTAACGCGA AAATTTAACA 6960 6901 GGCGTTCCTA CTTTTACAATT TAAATATTTG CTTTAACAAAA ATTTACGATTA CCGTTCATCG 7080 6901 GGCGTTCCTA CACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7201 GTGATTTGAC TTGCTCCGGC CTTTCTCACC CTTTTTGAATC TTTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TTGCTCCGGC CTTTCTCACC CTTTTTTTTTT	6421 CTAGGCTGAA GGCGATGACC CIGCIAAGGC AGCAGTTATA GTTGGTGCTA CCATAGGGAI 6540 6481 TGAGTACATT GGCTACGCTT GGGCCATGGT AGCCAGAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGCCTG AATGGCGAAT GGCGCTTTGC CTGATTTCCG 6560 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AAGGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGGTGCACGGT TACGATGCGC CCATCTACAC CAACGTAACCC 6840 6721 GTCGTCCCCT CAAACTGGCA GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTATCTCG 6840 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAA ATTTAACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACCGATTA TTGGGGGCTTT 7020 6841 CTCACATTTA ATGTTGATAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6841 CTCACATTTA ATGTTAAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6901 GGCGTTCCTA GTTTACAATT TAAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCTACA CATTTCCAA 7140 7021 TCTGATTATC TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7260 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTTAGAAC GGTTGAATAT CATATTGATG 7320 7201 GTGATTTGAC TGCCTCCGGC CTTTCTCACC CTTTTTGAACCGAT TTACCTACA CATTTATTAG 7340 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTTTTTGCT TACAACCGAT TTAGCTTTAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGATA GATTTATTGG 7445 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTTTTTTTGCT TTGCCTTGAT GATTTATTGG 7445	CTAGGCTGAA GGCGATGACC CIGCIAAGGC AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6560 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 GACCAGAAG CGCTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6601 GCACCAGAAG CGGTGCCGGA AAGCTGGCTT TACGATGCGA ATCCGACGGG TTGTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGAAA ATCCGACGGG TTGTTACTCG 6840 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGA 6960 6841 CTCACCATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAAA CTTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTAAC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GAACTCTCAG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTTTGC TTCCTGCTT GAAATAAAAGG 7320 7261 GCATTGCAT TAAAATATAT GAGGGTTCATA AAGATTTTTA CTTTTTTTTTT	CTAGGCTGAA GGCGATGACC CIGCIAAGGC AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6560 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC ACCACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6660 6541 GACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGCGATC TTCCTGAGGC CAACGTAACC 6780 6601 GCACCAGAAG CGGTGCCGGA AAGCTGGCTT TACGATGCCC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAAATATTTG CTTATACAAAT TTTACCGATTA CAGTTCACAAT 7020 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTTAGATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCAT TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TTAGCTTTAT 7340	CTAGGCTGAA GGCGATGACC CIGCIAAGGC AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TTCTTAAAGCA ATAGCGAAGA GGCCCGCACC 6620 6541 TAAATTATTC AAAAAAGTTTA CGGCAAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTAACA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAACTATTGA TTTAACAAAAA ATTTAACGCGA AATTTTAACA 6900 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAAA ATTTAACGATTA CCGTTCATCG 7080 7021 TCTGATTACA GTTTACAATT TAAAATATTTG ACATGCTGAT TTTACCGATTA CCGTTCCAA 7140 7021 TCTGATTACC CCTCTCCAGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATTTTGATG 7200 7081 ATTCTCTTGT TTGCCCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCCAG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTGAC TTAAAATATAT GAGGGTTCTA AAAATTTTA TCCTACCGAT TTAGCTTTAT 7380	CTAGGCTGAA GGCGATGACC CIGCIAAGGC AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAI 6600 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA 6GCCCGCACC 6660 6541 TAAATTATTC ACCACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG GAGTGCGCGC CCATCTACAC CAACGTAACC 6780 6601 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGGCG ATTTTTTTGAT 6900 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAAA ATTTTAACAA 6960 6841 CTCACATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGTGACTGA TTTAACAAAA CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT TTTACCGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCGATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTA CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGATCT GAAATAAAGG 7320
6361 CGCCCAGGTC CAGCIGCTCG AGGCTATAGGC TGCATTCAAT AGTTIALAGG CAAGAGGAA 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TAGGTAATA GTTGGTGCTA CCATAGGGAA 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA ATAGCGAAGA CTCATAGGGAC 6660 6541 TAAATTATC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA CTGGTTTCCG 6660 6601 GACCGCCCT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TCCACATTTA ATGTTGAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGAAAA AATGAGCTGA TTTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7080 6701 GGCGTTCCTA TTGGTTAAAAA AATGAGTTG ACATGCTGAT AGCCTTGATA CATTTCATCG 7260 77021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGAATAT CATTATTGATG 7200 77031 ATTCTCTTGT TTGCTCCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7260 77201 GTGATTTGAC CCCTCCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 77201 GTGATTTGAC TTAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTTGCGTT GAAAATAAAAGG 7320 77201 GTGATTTGAC TTAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTTGCGTT GAAAATAAAAGG 7320 77201 GTGATTTGAC TTAAAATATAT CAGGGTCATA ATGTTTTTTGC TTCCCTGCTT TAAAATATATGG 7440 7721 CTTCTCCCGC AAAAATATAT CAGGGTCATA ATGTTTTTTGC TTCCCTGCAT TAAATTATTGGT 7440 7721 CTTCTCCCGC AAAAAGTATTA CAGGGTCATA ATGTTTTTTGCC TTGCCTTGAT GATTTATTGGT 7440 7721 AATTTTGCTT AATTTTGCTT AATTTTTTTTTTTTTTT	6361 CGCCCAGGTC CAGCIGCTCG AGGCGTAGGC TGCATTCAAT AGTTIALAGG CAATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TAGGTAGTAAA ATAGCGAAGA CCCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6541 TAAATTATC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA CTGGTTTCCG 6660 6601 GACCGCCCT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6721 GTCGCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGCCCCT CAAACTGGCA GATGCCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TCCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGACC ATTAACAGT TTTGACGGCTT TTGGGGCTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTTAACAAAA ATTTAACGCG AATTTTAACA 6960 7021 TCTGATTATC AACCGGGGTA CATTATGATTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7080 7021 TCTGATTATC AACCGGGGTA CATTATGATTG ACATGCTGAT AGCCTTTGTA GATCTCCAA 7140 7081 ATTCTCTTGT TTGCTCCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7260 7141 AAATAGCTAC CCCCTCCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTTGCGTT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAAGTATTA CAGGGTCATA ATGTTTTTTGC TACAACCGAT TTAGCCTTTAT 7380 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTTGCC TTGCCTTGTAT GATTTATTGG 7440 7445 ACGTT	6361 CGCCCAGGTC CAGCIGCTCG AGGCTATAGGC TGCATTCAAT AGTTIALAGG CAAGAGGAA 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TAGGTAATA GTTGGTGCTA CCATAGGGAA 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA ATAGCGAAGA CTCATAGGGAC 6660 6541 TAAATTATC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA CTGGTTTCCG 6660 6601 GACCGCCCT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TCCACATTTA ATGTTGAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGAAAA AATGAGCTGA TTTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7080 6701 GGCGTTCCTA TTGGTTAAAAA AATGAGTTG ACATGCTGAT AGCCTTGATA CATTTCATCG 7260 77021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGAATAT CATTATTGATG 7200 77031 ATTCTCTTGT TTGCTCCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7260 77201 GTGATTTGAC CCCTCCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 77201 GTGATTTGAC TTAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTTGCGTT GAAAATAAAAGG 7320 77201 GTGATTTGAC TTAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTTGCGTT GAAAATAAAAGG 7320 77201 GTGATTTGAC TTAAAATATAT CAGGGTCATA ATGTTTTTTGC TTCCCTGCTT TAAAATATATGG 7440 7721 CTTCTCCCGC AAAAATATAT CAGGGTCATA ATGTTTTTTGC TTCCCTGCAT TAAATTATTGGT 7440 7721 CTTCTCCCGC AAAAAGTATTA CAGGGTCATA ATGTTTTTTGCC TTGCCTTGAT GATTTATTGGT 7440 7721 AATTTTGCTT AATTTTGCTT AATTTTTTTTTTTTTTT	6361 CGCCCAGGTC CAGCIGCICG AGGCCAGGC TGCTAAGGC TGCATTCAAT AGTTTALAGG CAAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT CGGCCAGCCAGGC ATTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6720 6601 GATCGCCCTT CCCAACACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 661 GCACCAGAAG CCGGTA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AATTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTAACAAAA ATTTAACGATTA CCGTTCATCG 7020 6961 GAGTTCCCAA TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTACCATTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 7021 TCTGATTACC AACCGGGGTA CATATGATTG ACATGCTAGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TTGCTCCAGA CTCTCCAGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAC TTAAAATATAT CAGGGGTCATA ATGTTTTTTGC TTTACCTGAT GATTTATTGG 7445 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTTTTTTGC TTTGCCCTGTAT GATTTATTGG 7445	6361 CGCCCAGGTC CAGCIGCTC ACTOCAGGC TGCATTCAAT AGTTTALAGG CAAGTGCGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT CGGCCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCCC 6660 6541 TAAATTATTC AAAAAGTTTA CGGCCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6660 6541 TAAATTATTC CCCAACAGGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6601 GATCGCCCTT CCCAACAGGTT GCGCAGCCTG GAGTGCGGAT CTCCTGAGGC CAACCGTAACC 6780 6601 GCACCAGAAG CGGTGCCGGA AAGCCTGGCT TACGATGCGC CCATCTACAC CAACCGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGG ATTATTTTTGAT 6900 6781 TATCCCATTA ATGTTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGG AATTTTAACA 6960 6841 CTCACATTTA ATGTTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGG AATTTTAACA 6960 6841 CTCACATTTA ATGTTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGC TTTGGGGCCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAAATATTTG CTTATACAAT TTTACCGATTA CATATTGATG 7080 7021 TCTGATTACC AACCGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCCAA 7140 7081 ATTCTCTTGT TTGCTCCAGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC GTTTACCTACA CATTACTCAG 7320 7261 GCATTGCCT AAAAGTATTA CAGGGTCATA ATGTTTTTGC TTGCCTGTAT GAAATAATTGG 7440	6361 CGCCCAGGTC CAGCIGCICG ACTOCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCAAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCCAAGGC TTCTTAAGCA ATAGCGAAGA CTGGTTTCCG 6660 6541 TAAATTATTC AAAAACTTTA CGGCCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGCC CCATCTACAC CAACGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG CCCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCAC AGACCGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACCGCGAAT TATTTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTTAACAAAA ATTTAACGAGCA AATTTTAACAA 7020 6961 AAATATTAAC GTTTACAAAT TAAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGGCTTT 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGC ATGACCTGAT AGCCTTTGAATAT CATATTGATG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCAT TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGTT GAAATAAAGG 7320 7261 GCATTGCAT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAGG 7320	6361 CGCCCAGGTC CAGLIGCTCG ACTOCTAAGGC TGCATTCAAT AGTTTALAGG CAAGTGCGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGGCTCCG 6660 6541 TAAATTATC CCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCTG GAGTGCGATC TTCCTGAGGC CAACAGTAACC 6780 6601 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC ATTATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC ATTAACACAAA ATTTAACAGCTA AATTTTAACA 6960 6841 CTCACATTTA ATGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCGA AATTTTAACAAT TO20 6961 AAATATTAAC GTTTACAATT TAAAATATTTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTACC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA CATATTGATG 7200 7081 ATTCTCTTGT TTGCCCCAGA CTCTCAGGCA ATGACCTGAT GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTCGAC TTAAAATATAT GAGGGTTCTA AAAATTTTA TCCTACCGAT TTAGCTTTAT 7380	6361 CGCCCAGGTC CAGLIGCTCG ACTOCTAAGGC TGCATTCAAT AGTTTALAGG CAAGTAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6660 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCTTTCCG 6660 6541 TAAATTATTC CCCAACAGTT CGCCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6601 GATCGCCCTT CCCAACAGTT GAGCTGGCTG GAGTGCGGATC TTCCTGAGGC CGATACGGTC 6780 6601 GCACCAGAAG CGGGCTA AAGCTGGCTG GAGTGCGGAAT TATTTTTGAT 6900 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATTTTAACAA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACCAA 6960 6781 TATCCCATTA ATGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACCAAT TTGGGGGCTTT 7020 6781 TATCCCATTA AACCAGGGTA CATATGATTG CTTATACAAT TTTACGATTA CCGTTCATCG 7080 7021 TCTGATTAAC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCGATTA CATATTGATG 7200 7081 AATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGAA CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA CTTTTTGATC TTTACCTACA CATTACTCAG 7220 7141 AAAATAGCTAC CTTTCCGGC CTTTCTCACC CTTTTGATT TCCTTGCGTT GAAATAAAGG 7320
6301 AAGCACTATI 6361 CGCCGAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTACAGG CAAGTGCTAC 6480 6421 CTAGGTCGAGTT GGCTACGCTT GGGCTATGGT AGTATATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTATATA GTTGGTGCTA CCATAGGGAT 65600 6581 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 66600 6581 GATCGCCCTT CCCAACAGGT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6780 6601 GATCGCCCTT CCCAACAGGT GCGCAGCCTG GAGTGCGAAT TTCCTGAGGC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6781 TATCCCATTA AGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG AATTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTAACAAAA ATTTAACGCG AATTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTATACAAAA CTTCCTGTTT TTGGGGCCTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAAA CTTCCTGTTT TTGGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAAA CTTCCTGTTT TTGGGGGCTTT 7020 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACCATGCTAGAT AGCCTTTGTA GATCTCCAAA 7140 7081 ATTCTCTTGT TTGCTCCAGG CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCCAGA 71200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACCTAGA 7320 7201 GTGATTTGAC TGCCTCCAGG CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTAAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TACAACCGGAT TTAACTATTG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TTGCCCTGTAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGC TTGCCCTGTAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTTGC TTGCCCTGTAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTTGC TTGCCCTGTAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTTGC TTGCCCTGTAT GATTTATTGGT 7440 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATTCTTTTGC TTGCCCTGTAT GATTTATTGGT 7440	6301 AAGCACTATI 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA AGTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAT GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTATTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6560 6601 GATCGCCCTT CCCAACAGGT GCGCAGCCTG AATGGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACAGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC ATTGTTACTCG 6840 6721 GTCGTCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACCGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTAACAAAA ATTTAACGCG AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA CACTGGCTA CTTATACAAAA ATTTAACGCG AATTTTAACAA 6960 6721 GTCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG AATTTTAACAAT TTAACAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAT TTAACAAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAA ATTTAACAAAAA ATTTAACAAAAA ATTTAACAAAAA ATTTAACAAAAA ATTTAACAAAAAAAA	6301 AAGCACTATI 6361 CGCCGAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTACAGG CAAGTGCTAC 6480 6421 CTAGGTCGAGTT GGCTACGCTT GGGCTATGGT AGTATATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTATATA GTTGGTGCTA CCATAGGGAT 65600 6581 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 66600 6581 GATCGCCCTT CCCAACAGGT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 6780 6601 GATCGCCCTT CCCAACAGGT GCGCAGCCTG GAGTGCGAAT TTCCTGAGGC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6781 TATCCCATTA AGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG AATTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTAACAAAA ATTTAACGCG AATTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTATACAAAA CTTCCTGTTT TTGGGGCCTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAAA CTTCCTGTTT TTGGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAAA CTTCCTGTTT TTGGGGGCTTT 7020 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACCATGCTAGAT AGCCTTTGTA GATCTCCAAA 7140 7081 ATTCTCTTGT TTGCTCCAGG CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCCAGA 71200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACCTAGA 7320 7201 GTGATTTGAC TGCCTCCAGG CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTAAT 7380 7321 CTTCTCCCGC AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGGAT TTAGCTTTAT 7380 7381 GCTCTGAGGC TTTATTGCTT AAATTTTTGCT ACATTTTTTGC TTGCCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AAATTTTTTGCT TTGCCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AAATTTTTTTTTTTTTT	6301 AAGCACIATT GAGCTGCTCG AĞTCAĞĞCCT ATTGTĞCCCA GĞĞĞTTACAĞĞ CAAĞTĞCTAC 6480 6421 CTAĞĞCTĞAA GĞCĞATĞACC CTĞCTAAĞĞC TĞCATTCAAT AĞTTTACAĞĞ CAAĞTĞCTAC 6540 6481 TĞAĞTACATT ĞĞCTACĞCTT GĞĞCTATĞĞT AĞTAĞTTATA ATTAĞCĞAAĞA ĞĞCCCĞCACC 6560 6541 TAAAATTATTC AAAAAĞTTTA CĞAĞCAAĞĞC TTCTTAAĞCA ATAĞCĞAAĞA ĞĞCCCĞCACC 6720 6501 GATCĞCCCTT CCCAACAĞTT ĞCĞCAĞCCTĞ AATĞĞCĞATC TTCCTĞAĞĞC CĞATACCĞĞTC 6720 6501 GACCAĞAAĞ CĞĞTĞCCĞĞA AĞĞCTĞĞCTĞ ĞAĞTĞÇĞĞAT TTCCTĞAĞĞC CAACĞTAACC 6780 6721 GTCĞTCCCCT CAAACTĞĞCA ĞATĞCACĞĞT TACĞATĞCĞC CCATCTACAC CTATTTTĞAT 6840 6721 GTCĞTCCCCT CAAACTĞÇA ĞAĞCTĞĞCTA CAĞĞAAĞĞCC AĞACĞCĞAAT TATTTTĞAT 6960 6721 GTCĞTCCCCT CAAACTĞÇA AĞACÇTĞĞTT CCCACĞĞAĞA ATTTAACĞĞĞ TATTTTTAACA 6960 6721 GTCĞTCCCTT TTĞĞTTAAAA AATĞAĞTTĞ CTTATACAAT CTTCCTĞTT TTĞĞĞĞCTTT 7020 6841 CTCACATTTA ATĞTTĞATĞA AAĞCTĞĞCTA CAĞĞAAĞĞCC AĞACÇĞĞAAT TATTTTTAACA 6960 6841 CTCACATTTA ATĞTTĞATĞA AAATATTTĞ CTTATACAAT CTTCCTĞTT TTĞĞĞĞCTTT 7020 6901 GĞCĞTTCCTA TTĞĞTTAAAAA AATĞAĞTTĞA CATĞTTĞAT CCĞTTCATÇA 7140 7021 TCTĞATTATC AACCĞĞĞĞTA CATATĞATTĞ ACATĞCTAĞT TTTACĞATTA ÇATATTĞATĞ 7200 7141 AAATAĞCTAC CCTCTCCĞĞC CTTTCTCACC CTTTTĞAATC TTTACCTTACA CATTACTCAĞ 7260 7201 GCATTĞAT TAAAATATTA ÇAĞĞĞTTCATA AAAATTTTA TCCTTĞCĞTT ĞAAATAAAĞĞ 7320 7201 GCATTĞAT TAAAATATTA ÇAĞĞĞTTCATA ATĞTTTTTĞ TAĞAATTTTAT TAĞATTTATT TAAATTTTAÇ TAÇACCĞAT TTAĞCCTTTAT 7380 7321 CTTCTCCCĞC AAAAĞTATTA CAĞĞĞĞTTCAA ATTCTTTĞCC TTĞCCTĞTAT ĞATTTATTĞA 7440 7321 CTTCTCCĞC AAAAĞTATTA CAĞĞĞĞTCATA ATĞTTTTĞC TTĞCCTĞTAT ĞATTTATTĞA	6301 AAGCACTATT 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTCAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6600 6541 TAAATTATC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAATTATC CCCAACAGTT GCGCAGCCTG AATGGCGGAT TTCCTGAGGC CGATACGGTC 6720 6601 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCCGAT TTCCTGAGGC CGATACGGTC 6780 6601 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG CCCATCTACAC CAACGTAACC 6880 6601 GCACCAGTA CGGTCAATCC GCCGTTTGTT CCCACCGGAGA ATCCGACGGG TTGTTACTCG 6880 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACCA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACCA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGGG AATTTTAACAA 6900 6901 GGCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGGCTTCAACA 7140 7021 TCTGATTATC AACCGGGGTA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCCGGC ATTAATTTAT CAGCTAGAAC TTTACCTACAC CATTACTCAG 7320 7201 GTGATTTGACT TAAAATATTA GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCCTC AAAAGTATTA CAGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTAT 7380 7261 GCATTGCCTCAGA CACCGGT AAAAATATTA CAGGGGTCATA ATGTTTTTGG TACAACCGAT TTAGCTTTATTGG 7440	6301 AAGCACTATI 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTGTGCCA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGCGAAGA GGCCCGCACC 6600 6541 TAAATTATTC CAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAAATTATTC CCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6601 GATCGCCCTT CAAACTGGCA GATGCACCGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACCGGT TACGATGCGC ATCCGACGGG TTGTTACTCG 6840 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC ATTTAACAAAAA ATTTAACAAAAA AATGAGCTGA TTTAACAAAAA ATTTAACAA 6960 6841 CTCACCATTA ATGTTGATGA AAGCTGGCTA CTTAACAAAAA ATTTAACGCG AATTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CTTAACAAAAA ATTTAACGCG AATTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CATTAACAAAAA ATTTAACAAAAA AATGAGCTGA TTTAACAAAAAA CCGTTCCAAAT TAAAATATTTG CTTATACAAAAA CCGTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATTAGATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTTAACAATATTA GAAGTTTATA GAGGGTTCAA AAAATTTTA TCCTTGCGTT GAAAATAAAAGG 7320 7261 GCATTGCATT TAAAATATATA GAGGGTTCAA AAAATTTTA TCCTTGCGAT TTAACTTTATA 7380	6301 AAGCACTATT CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA AGTTTACAGG CAAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGCCTT GGGCTATGGT AGTAGTTATA GTTTGTGCCTA GGCCCGCACC 6500 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTTGTGCCTA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6720 6501 GATCGCCCTT CCCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGTC 6720 6601 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGAT TTCCTGAGGC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTTTTTAACA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC ATTAACAAAA ATTTAACAGCA AATTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGAC CTTCCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC AACCGGGGTA CATATGATTG ACATGCTGAT AGCCTTTGTA GATCTCCAA 7140 7021 TCTGATTACC TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCCAA 7200 7041 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTTAGATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTGAC TGCCCCCCTTTCCAGC CTTTCTCACC CTTTTTGAATC TACAACCGAT TTAGCTTTAT 7380	6301 AAGCACTATT CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGGTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGCGAAGA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAATTATTC CCCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CGATACGGTC 6720 6601 GATCGCCCTT CCCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGGAGGC CAACGTAACCC 6780 6611 GCACCAGAAG CCGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACCC 6780 6721 GTCGTCCCCT CAGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTACTCG 6840 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACCGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTATACAAAT ATTTAACAA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGAC ATTAACAATA TTAACAATA TTAACAAAT TTAACAAAT TTAACAAAT TTAACAAAT ATTTTTAACAAAT ATTTTTAACAAT TTAACAATA CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATTATTAAC GTTTACAATT TAAATATTTG CTTCTAGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA GAAATAAAGG 7260 7141 AAATAGCTAC CTCTCCGGC CTTTCTCACC CTTTTTGATC TCCTTGCGTT GAAATAAAGG 7320
6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTCA GGGGGATTGTA CTAGTGGATC 6480 6301 AAGCACTATT GCACTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGGATTGTA CTAGTGGATC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTTAGGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6500 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGGA GGCCCCGCACC 6600 6541 TAAATTATTC CAACAACGTT CGCCAGCCTG AATGGCCGAAT TCCTGAGGC CGATACCGGTC 6720 6561 GATCGCCCTT CCCAACAGTT CGCCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACCGGTC 6720 6561 GCACCAGAAG CGCTGCCGGA AAGCTGGCTG GAGTGCGCC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCTT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACACA ATTTTTTTACA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AACCGCGAAT TATTTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA TTTAAACAAAT ATTTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATATTTTG CTTATAACAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAAATATTTTG CTTATACAAT TTTACCAATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CATTTTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTTACTCAG 7320 7201 GTGATTTGAC TGCCTCCGGC CTTTCTCACC CTTTTTTTTTT	6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACCA GGGGGATTGTA CTAGTGGATC 6480 6301 AAGCACTATT GCACTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGGATTGTA CTAGTGGATC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTTAGGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6500 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCTTAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6541 TAAATTATTC CCCAACAGTT CGCCAGCCTG AATGGCCGAAT CTCCTGAGGC CGATACCGGTC 6720 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC CCCATCTACAC CAACGTAACC 6780 6561 GCACCAGAAG CGGTCCCGGA AAGCTGGCT TACGATGCGC CCATCTACACAC CAACGTAACC 6840 6721 GTCGTCCCCTT CGAACTGGCA GATGCACGGT TACGATGCGC CCATCTACACAC CAACGTAACC 6840 6721 GTCGTCCCCTT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACACAC AATTTTACTCG 6840 6781 TATTTTTTGAT CAAACTGGCA AAGCTGGCTA TTTAAACAAAA ATTTAACGCG AATTTTAACAA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAAACAAAA ATTTAACGCG AATTTTAACAC 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAAACAAAA ATTTAACGCG AATTTTAACAC 6960 6841 CTCACATTTA ATGTTGATGA CATATGATTT CAACTGGTAT AGCCTTTGTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAATATTTT CTTTAACAAAT ATTTTCTAACAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG TTTAACAAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTACTCAG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTA TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAC TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7321 CTTCTCCCGC AAAAAGTATTA CAGGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTACTCAG 7440 7321 CTTCTCCCGC AAAAAGTATTA CAGGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGCT 7445 7321 CTTCTCCCGC AAAAAGTATTA CAGGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGCT 7445 7321 CTTCTCCCGC AAAAAGTATTA CAGGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGCT 7445	6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTCA GGGGGATTGTA CTAGTGGATC 6480 6301 AAGCACTATT GCACTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGGATTGTA CTAGTGGATC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTTAGGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6500 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGGA GGCCCCGCACC 6600 6541 TAAATTATTC CAACAACGTT CGCCAGCCTG AATGGCCGAAT TCCTGAGGC CGATACCGGTC 6720 6561 GATCGCCCTT CCCAACAGTT CGCCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACCGGTC 6720 6561 GCACCAGAAG CGCTGCCGGA AAGCTGGCTG GAGTGCGCC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCTT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACACA ATTTTTTTACA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AACCGCGAAT TATTTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA TTTAAACAAAT ATTTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATATTTTG CTTATAACAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAAATATTTTG CTTATACAAT TTTACCAATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACGATTA CATTTTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCTACA CATTTACTCAG 7320 7201 GTGATTTGAC TGCCTCCGGC CTTTCTCACC CTTTTTTTTTT	6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTA GGGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA AGTTTACAGG CAACTGCTAC 6480 6421 CTAGGCTGAA GGCGATGCTAC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAACAGGCAC 6500 6481 TGAGTACATT GGCTACGCTT CGGGCCAACAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCCACC 6500 6541 TAAATTATTC AAAAAAGTTTA CGGAGCAAGGC TTCTTAAGCA ATAGCGAAGA CCGGTTTCCG 6720 6561 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CGAACAGGTC 6720 6661 GCCCACCAGAAC CGGTGCCGGA AAGCTGGCTG GAGTGCGCC CCATCTACAC CAACGTAACC 6780 6721 GCGCCAGCATTA CGGTCCATCA GAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGAGAT TATTTTTGAT 6900 6721 TCTCACATTA ATGTTGATGA AAGCTGGCTA CAGGAGAAA ATTTAACCGCG AATTTTAACA 6960 6841 CTCACATTA ATGTTGATGA AAGTGGCGAA TTTAACAAAA ATTTAACGGCG AATTTTAACA 6960 6841 CTCACATTA ATGTTGATGA AAGTGGCGAA TTTAACAAAA ATTTAACGGCG AATTTTAACA 6960 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAAA ATTTAACGGTT TTGGGGTCCTT 7020 6961 AAATATTAAC GTTTAACAATT TAAATTTTG CTTATACAAAT CCGTTCACAA 7140 7021 TCTGATTATC AACCGGGAC CTTTCCCAGGCA ATGACCTGAT AGCCTTTGAAC CATTACTCAG 7260 7141 AAATAGCTAC CCTCTCCAGA CTCTCCAGGCA ATGACCTGAT TTCCCTGCGTT GAAATAAAAGG 7320 7201 GCATTGCATT TAAAATATAT GAGGGTCATA AATTTTTTTTTT	6301 AAGCCCCAGGTC CAGCTGCTCG AGTCCAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCCAGGCCT ATTGTGCCCA GGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTGCTAC CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTAAGCA ATAGCGAAGA GGCCCGCACC 6600 6581 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCAT GGCGCTTTGC CTGGTTTCCG 6560 6501 GATCGCCCTT CCCCAACAGTT GCGCAGCCTG AATGGCGAAT TCCCTGAGGC CGATACCGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGC CCATCTACAC CAACGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTTGGTT CCCACGGAGAA ATTTAACCACA AATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTTGGCTA CTTAACAAAA ATTTAACCGCG AATTTTAACAA 6960 6781 TATCCCATTA ATGTTGAAAA AAGAGTATTA CAGGCTGAT TTAACCAAAA ATTTAACCGCG AATTTTAACAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCTACA CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAAATA CATATTGAT 7380 7261 GCATTGCAT TAAAATATAT GAGGGTTCAA AAGATTTTA TCCTTGCGTT GAAATAAAAGG 7320 7261 GCATTGCATT TAAAAATATAT GAGGGTTCATA AAGATTTTA TACCACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAATATAT CAGGGTCATA ATGTTTTTGC TACCACCGAT TTAGCTTTAT 7380 7261 GCATTGCATT TAAAAATATAT CAGGGTCATA ATGTTTTTGC TACCACCGAT TTAGCTTTAT 7380	6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTTTATA GTTGGTGCTA CCATAGGGAT 6540 6481 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC AGTGGCGAAT GGCGCTTTGC CTGGTTTCCG 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 66720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT TCCTGAGGC CGATACGGTC 6780 6601 GATCGCCCTT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAA ATTTAACGAGAAT TATTTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAA ATTTAACGAGT TTGGGGGCTTT 7020 6841 CTCACATTTA ATGTTGATAAAA AATGAGCTGA TTTAACAAAA ATTTAACGAGTT TTGGGGGCTTT 7020 6841 CTCACATTTA ATGTTGATAAAA AATGAGCTGA TTTAACAAAT CCGTTCATCG 7080 6701 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAT CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGAT AGCCTTTGTA GATCTCTCAA 7140 7081 AATTATTATC AACCGGGGTA CATATGATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTTTTT AAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAAATAAAGG 7320 7261 GCATTGCATT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGAT TAAGCTTTTAT 7380	6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGTGATTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6500 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 65600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6500 6561 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCG 65600 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTAACAAAA ATTTAACGGG AATTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTAACGGG AATTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA CACTGGCTA TTTAACAAAA ATTTAACGGG AATTTTAACA 7020 6961 AAATATTAAC GTTTACAAAT AATGATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTAC GTTTACAAAT ATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7021 TCTGATTAC AACCGGGGTA CATATGATTG ACATGCTAGAT TTTACCTACA CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT TTACCTACA CATATTGATG 7320 7201 GTGATTGAC TGTACAATTAT GAGGGTTCTA AAAATTTTTA TCCTTACACTACA TTAGCTTTAT 7380	6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGAGAAGA GGCCCGCACC 6600 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AATTGTGAGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAAGCA ATAGCGAAGA GGCCCGCACC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGAAT CTTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTAACAAAAA ATTTAACGCG AATTTTAACA 6960 6721 TATCCCATTA AAGTTTAAAAA AATGAGCTGA TTTAACAAAAA TTTAACGGCG AATTTTAACA 6960 6781 TATCCCTTTT TTGGTCAAAT TAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6781 TATCCCTATA CGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCCTAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCTACA CATTACTCAG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTGATC TCTTGCGTT GAAATAAAGG 7320
6241 GTGACTGGGA AAACCCTGGC GTTACCCAAB CACGGTTACTG TTTACCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCGCACC 6720 6501 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGATC TTCCTGAGGC CGATACGGTC 6720 6501 GACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6501 GTCGTCCCCT CAAACTGGCA GATGCACGGT CACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT ACCGATGCGC CCATCTACAC CAACGTAAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT ACCGATGAGC CAACGCGAAT TATTTTTGG 6840 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTAACA 6900 6841 CTCACATTA ATGTTAAAAA AATATTTG CTTTAACAAAAA ATTTAACAGCG AATTTAACAG 6960 6901 GGCGTTCCCTA TTGGTTAAAAA AATATTTTG CTTTAACAAAAA ATTTAACAGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCATCA CATTACTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GAACTATTAT CAAAATATTA CAGGGGTTCTA AAAATTTTA TCCTTTGAT GAAATATAT CAAGAGTTTA CAGGGTTCATA ATGTTTTTGCT TTACCATCA CATTACTTAT 7380 7201 GTGATTGAC TGTCCCGGC CTTTCTCACC CTTTTTGCT TACAACCGAT GATTTATTGG 7340 7321 CTTCTCCCCGC AAAAAGTATTA CAGGGTTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAAGTATTA CAGGGTTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7445	6121 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTACCCTT TTACCCTT TTACCCTT TTACCCTT ACCGTTACTG TTTACCCTT TGACAAAAGC 6480 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAAGTGCTAC 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAAGTGCTAC 6540 6481 TGAGTACATT GCACCGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAAGCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAAAT GGCGCTTTGC CTGGTTTCCG 6560 6541 TAAATTATTC CAAACAGGTT GCGCCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGT 6720 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAT TTCCTGAGGC CAACGTAACC 6780 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCT CAAACTGGCA GATGCACGGT CCCACGGAGA ATCCGACGCGAAT TATTTTGCT 6840 6721 GTCGTCCCTT TTGGTTAAAAA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTACTG 6840 6721 GTCGTCCCTT TTGGTTAAAAA AATGAGCTGA TTTTAACAAAA ATTTTAACGGG AATTTTAACA 6960 6841 CTCACATTA ATGTTTAAAAA AATGAGCTGA TTTTAACAAAA ATTTTAACGATTA CCGTTCATCG 7080 6721 TCTGATTATC AACCGGGGTA CATATGATTG CTTATACAAAT TTTAACGATTA CCGTTCATCG 7080 6701 GGCGTTCCTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GAACTCTCAA 7140 7021 TCTGATTACA TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCATCA CATTACTTAT 7380 7721 GTGATTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTTAT GAAATAATT CAAGAGGTTCTA AAAATTTTA CAGGGTTCATA AGGCTGATA GACCTGAT GAATTAATTGG 7320 7721 GTGATTGAC TGTCTCCGGC CTTTCTCACC CTTTTGAATC TTTACCTTAT GAAATAATAT CAGGGGTCATA ATGTTTTTGC TTGCCTGTAT GAATTTATTGG 7340 7321 CTTCTCCCCC AAAAAGTATTA CAGGGGTCATA ATGTTTTTGC TTGCCTGTAT GAATTATTGG 7440 7321 CTTCTCCCCC AAAAAGTATTA CAGGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7321 CTTCTCCCCC AAAAAGTATTA CAGGGTCATA ATTCTTTGCC TTGCCTGTAT GATTTATTGG 7440 7445	6241 GTGACTGGGA AAACCCTGGC GTTACCCAAB CACGGTTACTG TTTACCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCGCACC 6720 6501 GATCGCCCTT CCCAACAGTT GCGCAGCCTG AATGGCGATC TTCCTGAGGC CGATACGGTC 6720 6501 GACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6720 6501 GTCGTCCCCT CAAACTGGCA GATGCACGGT CACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT ACCGATGCGC CCATCTACAC CAACGTAAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT ACCGATGAGC CAACGCGAAT TATTTTTGG 6840 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTAACA 6900 6841 CTCACATTA ATGTTAAAAA AATATTTG CTTTAACAAAAA ATTTAACAGCG AATTTAACAG 6960 6901 GGCGTTCCCTA TTGGTTAAAAA AATATTTTG CTTTAACAAAAA ATTTAACAGATTA CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCATTA GATCTCTCAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCATCA CATTACTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GAACTATTAT CAAAATATTA CAGGGGTTCTA AAAATTTTA TCCTTTGAT GAAATATAT CAAGAGTTTA CAGGGTTCATA ATGTTTTTGCT TTACCATCA CATTACTTAT 7380 7201 GTGATTGAC TGTCCCGGC CTTTCTCACC CTTTTTGCT TACAACCGAT GATTTATTGG 7340 7321 CTTCTCCCCGC AAAAAGTATTA CAGGGTTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7321 CTTCTCCCGC AAAAAGTATTA CAGGGTTCATA ATGTTTTTGC TTGCCTGTAT GATTTATTGG 7440 7445	6281 GTGACTGGGA AAACCCTGGC GTTACCCTAAG CLIGHTACTG TTTACCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCGCTTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6500 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG AATGGCGAAT TCCTGAGGC CGATACCGGTC 6720 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCCGC CCATCTACAC CAACCGTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACCGTAACC 6780 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACCGGAGA ATCCGACGGG TTGTTACACA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAATGAGCTGA TTAAACAAAA ATTTAACCGCG AATTTTAACCA 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTAAACAAAA ATTTAACCGCG AATTTTAACCA 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA ACATGCTAATT CCGTTCATCG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAAT AGCCTTTGTA CATATTGATG 7200 7141 AAATAGCTAC TTGCCCCAGC ATTAATTTAT CAGCTTAAATTTAT CAGCTTTGTA GATCTCTCAA 7140 7021 TCTGATTACC TTGCCCCGC CTTTCCCGGC CTTTCTCACC CTTTTGCCTTTTTTACCTACA CATTACTCAG 7320 7321 CTCCCCGC AAAAATATTA CAGGGGTCATA ATGTTTTTGC TAAAAATATTA CAGGGTCATA ATGTTTTTGC TAAAAATATTA CAGCTGTAT GATTTATTGC 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGCT 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGCT 7445 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTGCCTGTAT GATTTATTGCT 7445	6121 GTGACTGGGA AAACCCTGGC GTTACCCAAG CLITACTG TTTACCCCTG TGACAAAAGL 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACTAGATC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCCCCGCACC CTGCTAAGGC TGCATCAAT AGTTTACAGG CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCCCCGCCACC GGGCCACC CAGCGTAACC CCATCGACGC CGATACGGTC CCCACCGCACC CGATACGGTC CCCACCGCACC CGATACGGTC CCCACCCACCACCTT CCCCAACAGTT GCGCAGCCTG GAGTGCGAAT TCCCTGAGGC CGATACGGTC GGGCCACCCGCACC CAACCTAACC GGCCCACCCACCCACCCACCCACCCACCCACCCAC	6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTACTG TTTACCCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAAGGCCT ATTGTGCCCCA GGGGATTGTA CTAGTGGATC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATTGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAAATTATTC AAAAAAGTTTA CGGCCAGCCTG AATGGCGAAT GGCCCTTTGC CTGGTTTCCG 6720 6601 GATCGCCCTT CCCAAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACTGGT 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TCCCTACAC CAAACGTAACCC 6780 6721 GTCGTCCCCTT CAAACTGGCA AAGCTGGCTA CACGGAGGA ATCCGACGGAT TATTTTTGAT 6900 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATTTAACCA AATTTTAACA 6960 6841 CTCACATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTA ATGTTGATGA AAGCTGGCTA TTTAACAAAA ATTTACCGTT TTGGGGCTTT 7020 6841 CTCACATTA AGGTCAAAC AATGAGCTGA TTTAACAAAA ATTTACCGTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAAATATTTG CTTATACAAT CTTTCCTGTT TTGGGGCTTT 7020 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GATCTCTCAA 7140 7081 ATTCTCTTGT TTGCTCCAGG CTTTCTCAAC CTTTTTTTTTT	6241 GCCCCAGGTC CAGCTGCCT AGGCAAGGC TCTTAACGCT AGGGGGATTGTA CTAGTGGATA 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACTGTGCCCA GGGGGATTGTA CTAGTGGATC 6420 6361 CGCCCAGGTC CAGCTGCTAC AGGCCT ATTGTGCCCA GGGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGA GGCCCCGCCC 6540 6481 TGAGTACATT GGCTACGCTT CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCCC 6560 6541 TAAATTATTC AAAAAAGTTT CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA CTGGTTTCCG 6560 6541 TAAATTATTC CCCAAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTTAGGC CGATACGGTC 6720 6661 GCACCAGAAG CCGGAA AAGCTGGCTG GAGTGCGATC TTCCTTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCGACGGA TTATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGACA ATTTAACGCG AATTTTAACA 6960 6781 TATCCCATTA ATGTTGATGA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 GCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAATT TAAATATTTG CTTAACAAAT AGCCTTTGTA GATCTCTCAAA 7140 7021 TCTGATTATC AACCGGGGTA CATAATGATTG ACATGCTAGT AGCCTTTGTA GATCTCTCAAG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTGTA GAAATATATGATTG 7200 7141 AAATAGCTAC CCTCTCCCGGC CTTTTCCACC CTTTTTGAATC TTTACCTACA CATTTCATCATTA 7380 7201 GTGATTCGAT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTCGAT TAAAATATAT GAGGGTTCTA AAAATTTTTA TCCTTACCTACT TTAACCTTAT TAAAATATTTTA TCCTTACCTACT TTAACCTTTAT 7380	6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTGTTACTG TTTACCCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ACCGTTACTA AGTTTACAGG CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCACC 65600 6481 TGAGTACATT GGCTACGCTT GGGCCTATGGT AGTCAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAAATTATTC AAAAAAGTTTA CGAGCAAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCCG 6560 6541 TAAAATTATTC CCCAACAGTT GCGCCAGCCTG AATGGCGAAT GGCGCTTTGC CAACCGGTC 6720 6661 GATCGCCCTT CCCAACAGTT GAGCTGGCTG GAGTGCGACC CCATCTACAC CAACCGTACCC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACCGATGCGAC CCAACCGTACCC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTA CCCACGGAGA ATCCCGACGGG TTGTTTTGAT 6900 6721 GTCGTCCCCT CAAACTGGCC GCCGTTTGTT CCCCACGGAGA ATCCCGACGGG TTTTTTTTGAT 6900 6721 GTCGTCCCTT CAAACTGGCA AAGCTGGCTA CAGGAAAGA ATTTAACCGATT TATTTTTTGAT 6900 6841 CTCACATTTA ATGTTGAAAA AATGAGCTGA TTTAACAAAA ATTTAACCGCT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAAT CTTCCTGTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT TTTACCGATTA CATATTGATG 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTTGTA GATCTCTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCCCACC CTTTTTTACCTACA CATTACTCAG 7320
6181 TTGTGAGCGG ATAACAATTI CACAGCGIC CTTTACCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGCC GTTACCCAAG CTTTGTACCAT GGAGAAAATA TGACCAAAAAGC 6360 6301 AAGCACTATT GCACTGGCCC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6360 6301 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGACCAGG CAAGTGCTAC 6540 6421 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6421 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TCTTAAGCA ATAGCGAAAGA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TACCTGAAGC CCATCTACAC CTGGTTCCG 6560 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACCGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA GATGCACGGT TACGATGCGC CCATCTACAC CAACCGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CAACGCGAAT TATTTTTGAT 6900 6731 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAAA ATCCGACGGG TTGTTACCAC 6900 6731 TATCCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAAAAA ATTTAACGCGA AATTTTAACA 6900 6731 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAAA ATTTAACGCGA AATTTTAACA 6900 6731 TATCCCATTA AAAATATTTG CTTAACAAAA AATTTAACGATTA CCGTTCCATCG 7080 6731 TCTGATTTAAC GTTTACAAAT TAAAATATTTG CTTAACAAAA AGCCTTTGTA CCGTTCCATCG 7080 6731 TCTGATTTAAC GTTTACCAATT TAAAATATTTG CTTTAACAATA AGCCTTTTGTA CAGTTCATCAA 7200 7021 TCTGATTTGAC TGTTACCAATT TAAAATATTTA CAGCTAGAAC AGCCTTTTTTACCAATT TAACAATATTAT CAGCTAGAAC ATTAACTACAA 7200 7021 TCTGATTTGAC TGTTACCAATT TAAAATATTTA CAGCTAGAAC ATTAACTACAA 7200 7021 TCTGATTTGAC TGTTACCAATT AAAATATTTA CAGCTAGAAC AAGCCTTTTATCACCATT GAAATATATAT GAGGGTCATA ATGACTTTAT GATTTAACAATT TAACAATTTTAACAATT TAACAATTTTAACAATT TAACAATTTAACAATTTAATTTAACAATTTTAACAATTTTAACAATTTTAACAATTTAATTTAACAATTTAACAATTTAACAATTTTA	6181 TTGTGAGCGG ATAACAATTI CACAGGGIC CTTTACCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GGAGAAAATA TGACAAAAAGC 6360 6301 AAGCACTATT GCACTGGCCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6360 6301 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAC CAGCTGCTCG AGTCAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGACA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAAGA GGCCCGCACC 6560 6541 TAAATTATTC AAAACGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAAGA GGCCCGGAC 65720 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACCGGTC 65720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAAA ATCCGACGGG TTGTTACCTG 6840 6721 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAAA ATTTAACGCG AATTTTAACA 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAAAA ATTTAACGCG AATTTTAACAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAAAA ATTTAACGAC AATTTAACAA AATGAGCTTACTAAAA AATGAGCTTAC CAGGAAAGAAAA ATTTAACGATT TTACGATTA CCGTTCATCG 7080 6721 TCTGACTTTAT CAACAATT TAAAATATTTG CTTTAACAAAT CTTCCTGGTT GAAATATAACAATTTAACAATTTAT CAGGCTAGAAC AGCCTTTGTA GATCTCCAA 7140 7021 TCTGATTTGAC TGTTACCAATT TAAAATATTTA CAGGCTAGAAC AGCCTTTGAAC CATTACTCAA 7200 7031 AAATATTAAC GTTTACCAATT TAAAATATTAT CAGGCTAAAA AAAATTTTA TCCTTGAAT AGCTTTATACAAC CATTACTCAA 7200 7041 AAATAGCTAC CCTCTCCGGC CTTTCCCCCC CTTTTTCACC TTTGCCTTTATACAATT TAACAATTTAT CAGGCTTAAA AAAATTTTAT CAGGCTTAAT AAATTTTTAT TAACAATTTAT TAACAATTTAT CAGGCTTAAT GATTTATTTAT TAACAATTTAT TAACAATTTATTT	6181 TTGTGAGCGG ATAACAATTI CACAGCGIC CTTTACCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGCC GTTACCCAAG CTTTGTACCAT GGAGAAAATA TGACCAAAAAGC 6360 6301 AAGCACTATT GCACTGGCCC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6360 6301 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGACCAGG CAAGTGCTAC 6540 6421 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6421 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TCTTAAGCA ATAGCGAAAGA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAGTTTA CGAGCAAGGC TACCTGAAGC CCATCTACAC CTGGTTCCG 6560 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACCGGTC 6720 6661 GCACCAGAAG CGGTGCCGGA GATGCACGGT TACGATGCGC CCATCTACAC CAACCGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CAACGCGAAT TATTTTTGAT 6900 6731 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAAA ATCCGACGGG TTGTTACCAC 6900 6731 TATCCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAAAAA ATTTAACGCGA AATTTTAACA 6900 6731 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAAGAAA ATTTAACGCGA AATTTTAACA 6900 6731 TATCCCATTA AAAATATTTG CTTAACAAAA AATTTAACGATTA CCGTTCCATCG 7080 6731 TCTGATTTAAC GTTTACAAAT TAAAATATTTG CTTAACAAAA AGCCTTTGTA CCGTTCCATCG 7080 6731 TCTGATTTAAC GTTTACCAATT TAAAATATTTG CTTTAACAATA AGCCTTTTGTA CAGTTCATCAA 7200 7021 TCTGATTTGAC TGTTACCAATT TAAAATATTTA CAGCTAGAAC AGCCTTTTTTACCAATT TAACAATATTAT CAGCTAGAAC ATTAACTACAA 7200 7021 TCTGATTTGAC TGTTACCAATT TAAAATATTTA CAGCTAGAAC ATTAACTACAA 7200 7021 TCTGATTTGAC TGTTACCAATT AAAATATTTA CAGCTAGAAC AAGCCTTTTATCACCATT GAAATATATAT GAGGGTCATA ATGACTTTAT GATTTAACAATT TAACAATTTTAACAATT TAACAATTTTAACAATT TAACAATTTAACAATTTAATTTAACAATTTTAACAATTTTAACAATTTTAACAATTTAATTTAACAATTTAACAATTTAACAATTTTA	6181 TTGTGAGCGG ATAACAATTI CACACGGTC CTTTGTACAT GGAGAAAATA AAGTGAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAGAAAGC 6420 6301 AAGCACTATT CACACTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CTAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6421 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCCAGCCTG AATGGCGAAAT GGCGCTTTGC CTGGTTTCCC 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAAGA GGCCCGCTACCG 6660 6541 TAAATTATTC CAAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGATACCGG 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG AATGGCGAAA ATCCGACCGG TTTTTTTGAT 6900 6721 GTCGTCCCCT CAAACCTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AATTTTAACA 6960 6731 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGAGC AGACCGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGAAA ATTTTAACGAC AAATTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CTTTATACAAAAA ATTTTTACCTATTT TTGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAAATATTTG CTTATACAAAAA CTTCCTGTTT TTGGGGCTTT 7020 6961 AAATATTTAC CACCGGGGTA CATATGATTG CTTATACAAAAA CTTCCTGTTT TTGGGGCTTT 7020 7021 TCTGATTTAC CACCGGGGTA CATATGATTG CTTATACAAAAA CTTCCTGTTT TTACGATTA CACCGTTCAAA 7140 7021 TCTGATTTAC CACCTCCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAAATAT CATATTGATG 7260 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTTAACAAAAA ATTTTACCTAAT TAAAATATTTA CAGCTAGAAC GGTTGAAATAT CATATTGATG 7380 7201 GTGATTTGCAC TGTCTCCGGC CTTTCTCACC CTTTTTGAATC TTTACCCTGAT GAATTAATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTTGCCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTTGCCCTGTAT GATTTATTGG 7440 7381 GCTCTGAGGC TTTATTGCTT AATTTTGCTA ATTCTTTGCC TTTGCCTGTAT GATTTATTGCTT	181 TTGTGAGCGG ATAACAATTI CACACGGG CTTTTGTACAT GGAGAAAATA AAGTGAAAACA 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTTGTACAT TTTACCCCTG TGACAAAAAGC 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTACAGG CAATAGGGAAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAATAGGGAAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCCAACGG TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGG CGATACGGTC 6720 6501 GATCGCCCTT CCCAACAGGT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTAGTTACCG 6840 6541 TAAATTATTC AAAAAAGTTTA CGAGCAGCCTG AATGGCGAAT TTCCTGAGGC CGATACGGT 6720 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTT TACGATGCGC CCATCTACAC CAACGTTAACCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCCGGT TACGATGCGC AGACGGAAT TATTTTTGAT 6900 6841 CTCACATTA ATGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGAAT TATTTTTTGAT 6900 6841 CTCACATTA ATGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGCG AATTTTAACA 6960 6841 CTCACATTA ATGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGCG AATTTTAACA 6960 6841 CTCACATTAA CGGTCAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGGCA TTTTAACAAT TTGGGGCCTTT 7020 6841 CTCACATTAA TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCGA TTATTAACAAT TTGGGGGCTTT 7020 6721 TCTGATTATC AACCGGGGTA CATTAATTTTG CTTATACAAAT TTTAACAAAT TAAATATTTG CTTATACAAAT TTAACAATAT CAAGCTAGAT ACATTCTTGTAT GAAATAAAAGG 7320 7021 TCTGATTATC AACCGGGC ATTAATTTAT CAGCTAGAAC GATTACTCAA CATTACTCAA 7200 7141 AAATAGCTAC CCTCTCCGGC CTTTCCACC CTTTTTGAAT TTCACCCAACCGAT TTAACTTTAT 7380 7261 GCATTGCAT TAAAATATAT GAGGGTCATA ATGTTTTTGG TACAACCGAT TTAATTATTGG 7440	6181 TTGTGAGCGG ATAACAATTI CACACGGG CTTTTGTACAT GGAGAAAATA AAGTGAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTTGTACAT GGAGAAAATA AAGTGAAAAGC 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCACG CAAGTGGAT 6540 6361 CGCCCAGGTC CAGCTGCTCG AGTCAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATCGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTAC CCATAGGGAT 6540 6481 TGAGTACATT GACAACAGTT GCGCAGCCTG AATGGCGAAAT GTCCTGAGGC CGATACCGGTC 6720 6541 TAAATTATTC AAAAAAGTTTA CGGCCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACCGGTC 6780 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACCGGTC 6780 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC CCATCTACAC CAACGTAAACC 6780 65721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGAAGGCC AGACGCGAAT TATTTTTGAT 6900 65781 TATCCCATTA ATGTTGATAAAA AAGCTGGCTGA TTTAACAAAAA ATTTAACGGCG AAATTTTTTAACA 6960 65841 CTCACATTTA ATGTTGATAAAA AATTTTTTTACAAAT ATTTTTAACAA 7140 65901 GGCGTTCCTA TTGGTTAAAAA AATATTTTG CTTATACAAAT CTTCCTGTTT TTGGTTCATCG 7080 67021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTAGT TTTACCAATT CATATTGATG 7200 7081 AATTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	6181 TTGTGAGCGG ATAACAATTI CACACGGG ATTTGTGCCCAG GGAGAAAATA AAGTGAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG TTTTGTGCCCA GGAGAAAATA AAGTGAAAAGC 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGGAT 6540 6421 CTAGGCTGAA GGCGATGGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT GACAAAGTTTA CGAGCAAGGC TTCTTAAAGCA ATAGCGAAGA CTACCGGTC 6600 6541 TAAATTATC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA CTACCGGTC 6720 6601 GATCGCCCTT CCCAACAGTT GCGCAGCCTG GAGTGCGATC TCCTGAGGC CAACGTAACC 6780 6661 GCACCAGCTC CCGATGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6781 TACCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGAAA ATTTAACGCG AATTTTAACA 6960 6781 TACCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGAAA ATTTAACGCG AATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAACAAAA ATTTAACGCG AATTTTTAACA 6960 6841 CTCACATTTA ATGTTGATAAA AATGAGCTGA TTTAACAAAT CTTCCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTTG CTTATACAAT CTTCCCTGTTT TTGGGGGCTTT 7020 7021 TCTGATTATC AACCGGGGTA CATTAATTTAT CAGCTAGAAC GGTTGAATAT CATTTTGAT 7200 7081 ATTCTCTTGT TTGCTCCAGA CTTTCTCACC CTTTTGAATA TCCTTTGCGTT GAAATAAAAGG 7320 7141 AAATAGCTAC CCTCTCCGGC CTTTCTCACC CTTTTGAATT TCCTTGCGTT GAAATAAAAGG 7320 7201 GTGATTTGAT TAAATATAT GAGGGTTCTA AAAATTTTAT TACAACCGAT TTAGCTTTAT 7380	6181 TTGTGAGCGG ATAACAATTI CACACGGG ATTTGTACAT GGAGAAAATA AAGTGAAACA 63360 6241 GTGACTGGGA AAACCCTGGC GTTACCCGAT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGGCC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6301 AAGCACTATT GCACTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGAT 6540 6421 CTAGGGCTGAA GGCCGCTCGACCCT GGGCTATAGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCCACCTT CGAGCAAGGC TTCTTAAAGCA ATAGCGAAGA GGCCCCGCACC 6660 6541 TAAATTATTC AAAAAAGTTTA GGGCAAGGCC TTCTTAAAGCA ATAGCGAAGA GGCCCCGCACC 6720 6661 GCACCAGAAG CCGGTGCGAA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACCTGGCA AAGCTGGCTA CAGGAGGCC CCATCTACAC CAAACGTAAACC 6780 6721 GTCGTCCCCT CAAACCTGGCA AAGCTGGCTA CAGGAGGCC AGACGCGAAT TATTTTTGAT 6900 6721 GTCGTCCCATTA CGGTCCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGG TTGTTAACAA 6960 6721 GTCGTCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGAA ATTTTAACGA AATTTTAACAA 6960 6781 TATCCCATTA CGGTCAAATC TAAATATTTG CTTATACAAAT CTTCCTGTTT TTGGGGCCTTT 7020 6961 AAATATTAAC GTTTACAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGCTTT 7020 7021 TCTGATTACC GCTCCAGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7021 TCTGATTACC CCTCCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7021 TCTGATTACC CCTCCCGGC CTTTCCCACC CTTTTTTAACAA CATTACCTACA CATTACTCCAG 7200 7021 TCTGATTACC CCTCCCGGC CTTTCCCACC CTTTTTTTATTT TCCTTGCGTT GAAATAAAAAG 7320 7320 7321 CTGATTGAC TGCTCCGGC CTTTCCCACC CTTTCTCACC CTTTTTTTTTT
6121 TCACTCATTA GGCACCCCAG CTTACCCAGGCT ACTTGGCACT GGCCGTCGTT TACAAAAAA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAAACC 6360 6241 GTGACTGGGA AAACCCTGGC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6360 6361 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCC ATTGTGCCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGGTGCTA CCATAGGGAT 6540 6421 TGAGATACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGGCCAGCCCTG AATGGCGAAT GGCCCTTTGCC G6660 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCCCTTTGCC CCAACGGTACCC 6600 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACCGTC 6720 6661 GCACCCAGAAC CGGTGCCGGA AAGCTGGCTG TACGATGCGAC CCATCTACAC CAACCGTAACC 6780 6661 GCACCCAGTAC CGGTCCAGCAG GATGCACGGT TACGATGCGAC CCATCTACAC CAACCGTAACC 6900 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATAAA AATGAGCTGA TTTAACAAAA ATTTAACAGAAA ATTTTAACAGCG TTTGGGGGCTTA 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTTAACAAAA ATTTAACAGCG TTTGGGGGCTTA 7020 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTACC CCTCTCCCGGC ATTAATTTAC CAGGGCTAT CAGCCTTTGTA AACCCTTTGTA 7200 7031 ATTCTCTTGT TTGCCTCCAGC ATTAATTTAT CAGGGCTATA ATGTTTTTG TACAAACAATAT AAAATATTAT CAGGGCTATA AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTGCTT TAAAATATTAA CAGGGTTCAA AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTGCAC AAAAATATAA CAGGGTTCAA AAGCCTTTGTA GAAAAAAAAAA	6121 TCACTCATTA GGCACCCCAGG TAAACAATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TAACAAAAAC 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACCAT GGAGAAAAAAA AAGTGAAAACC 6360 6361 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6360 6361 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCAGG CAAGTGCTAC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAAGGC TATTGTGCCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCCAGCTT GGGCTAAGGC TGCATTCAAT AGTTTACAGG CAAAGTGCTAC 6540 6421 CTAGGCTGAA GGCCAGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA GCCCCCCCCCC	6121 TCACTCATTA GGCACCCCAG CTTACCCAGGCT ACTTGGCACT GGCCGTCGTT TACAAAAAA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAAACC 6360 6241 GTGACTGGGA AAACCCTGGC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6360 6361 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCC ATTGTGCCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGGTGCTA CCATAGGGAT 6540 6421 TGAGATACATT GGCTACGCTT GGGCTATGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 6540 6541 TAAATTATTC AAAAAAGTTTA CGGCCAGCCCTG AATGGCGAAT GGCCCTTTGCC G6660 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCCCTTTGCC CCAACGGTACCC 6600 6541 TAAATTATTC CCCAACAGTT GCGCAGCCTG GAGTGCGATC TTCCTGAGGC CGATACCGTC 6720 6661 GCACCCAGAAC CGGTGCCGGA AAGCTGGCTG TACGATGCGAC CCATCTACAC CAACCGTAACC 6780 6661 GCACCCAGTAC CGGTCCAGCAG GATGCACGGT TACGATGCGAC CCATCTACAC CAACCGTAACC 6900 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATAAA AATGAGCTGA TTTAACAAAA ATTTAACAGAAA ATTTTAACAGCG TTTGGGGGCTTA 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTTAACAAAA ATTTAACAGCG TTTGGGGGCTTA 7020 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATCTGAT AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTACC CCTCTCCCGGC ATTAATTTAC CAGGGCTAT CAGCCTTTGTA AACCCTTTGTA 7200 7031 ATTCTCTTGT TTGCCTCCAGC ATTAATTTAT CAGGGCTATA ATGTTTTTG TACAAACAATAT AAAATATTAT CAGGGCTATA AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTGCTT TAAAATATTAA CAGGGTTCAA AGCCTTTGTA GATCTCTCAA 7140 7021 TCTGATTGCAC AAAAATATAA CAGGGTTCAA AAGCCTTTGTA GAAAAAAAAAA	6121 TCACTCATTA GGCACCULAG GCTACCCAGGCTC ACTTGGCACT GGCCGTCGTT TACAAACGC 6300 611 TTGTGAGCGG ATAACAATTT CACACGCTC ACTTGGCACT GGAGAAAATA AAGTGGAAACC 6360 6241 GTGACTGGGAA AAACCCTGGC GTTACCCAAG CTTTGTACAT GTTACCCCTG TACACAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTC AGTCAAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6361 CGCCCAGGTC CAGCTGCTCA AGGCCTATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGGTGCTA CCATAGGGGAT 6540 6421 CTAGGCTGAA GGCCATCAGGCT TACACCTT AGGCCAACAAGA GGCCCCCCACC 6600 6481 TGAGTACATT AAAAAGTTTA CGAGCAAAGGC TTCTTAAGCA ATAGCGAAAGA GGCCCCGCACC 6600 6541 TAAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAAGA CCTGGTTTCCCG 6660 6541 TAAAATTATTC CCCAACAGTT GCGCAGCCTG GAGTGCCGATC TTCCTGAGGC CGATACGGTC 6720 6661 GCACCAGAAG CGGGAACTGGCA GATGCACGGT TACACACTTAACAC CAACGTTAACCC 6780 66721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACACGATGCAC CCAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACACGATGCAC CAACGTAAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACACGATGCAC AATTTTAACA 6960 6721 GTCGTCCCCT CAAACTGGCA AATTGGATGCACGAT TATTTTTTAACA 6960 6721 GTCGTCCCCT CAAACTGGCA AATTGATTC CAGGAAAGAAC ATTTAACAAAAA ATTTTAACA ATTTTTAACA AAATTTTAACA AAATTTTAACAATT TAAATATTTTG CTTAACAAAAA ATTTAACGATTA CCGTTCATCA 7020 6901 GCGTTCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAAA ATTTAACAGATTA CATATTGATT 7020 6901 AAATATTAC GTTTACCAATT TAAATATTTTG CTTAACAAAAA ATTTAACCAGTTA CATATTGATG 7020 7021 TCTGATTATC AACCGGGGTA CATTAGATTA CATATTTTTT CATCTACAC CATTACTCCAA 7140 7021 TCTGATTATC AACCGGGC ATTAATTTAT CAGCTTAAAA ATTTTTTTTAACAAAAA ATTTTTTTTTT	6121 TCACTCATTA GGCACCCCAG GATCACCCCAG GATTACTACCCT GGCCGTCGTT TACAACAC 6300 6181 TTGTGAGCGG ATAACACATTT CACACCGGTC ACTTGGCACT GGAGAAAATA AAGTGAAACA 6360 6241 GTGACTGGGA AAACCCCTGGC GTTACCCCAG CTTTGTACAT GGAGAAAATA AAGTGAAACA 6360 6361 CGCCCAGGAT CCACCGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTGGTGCTA CCATAGGGAT 6540 6421 TGAGTACATT GGCTACCGCTT GGGCTATCAAACGCA ATAGCGAAGA GGCCCGCACC 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGG CCGATACCGTC 6720 6561 GACCCAGAAG CGACCAGGA AAGCTGGCTG GAGTGCGGAT TACGATGCGC CCATCTACAC CAACCTTACCC 6780 6721 GTCGTCCCCT CAAACAGTT GCGCAGCAGCTG AATGGCGGAA ATCCGACGGG TTTTTTTTGAT 6900 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAGGCC AGACGCGAAT TATTTTTGAT 6900 6781 TATCCCATTA CGGTCAAATC GCCGTTTGTT CCCACGGAGAA ATCCGACGGA AATTTTAACA 6960 6841 CTCACATTTA AGGTTAAAAA AATGAGCTGA TTTAACAAAAA TTTTTTTGAT 67020 6901 GGCGTTCCTA TTGGTTAAAAA AATGAGCTGA CTCTCAAGAA ATTTTAACAAAAA ATTTTTTTTGT TTGGGGCTTT 7020 6901 AAATATTAAC GTTTACAAAT TAAAATATTTG CTTAACAAAAA ATTTTTGTA CACTTTAACAAAA ATTTTTTTTGAT 7020 7021 TCTGATTTATC AACCGGGGTA CATTAACTTTA CAGCTGAAAC CATTACTCAAA 7140 7021 TCTGATTTATC AACCGGGGTA CATTAATTAT CAGCTTAAAAA ATTTTTTTTGCT TTGCTTCAAAA 7120 7021 GTGATTTGAC TGCCCGC ATTAATTTAT CAGCTTAAAA AATTTTTA TCCTTGCGTT GAAATATACTAA 7320 7321 GTGATTTGAC TAAAAATATTA CAGGGGTTCAA AAAATTTTA TCCTTGCGTT GAAAATATATA TAAAATATTA CAGGGGTTCAAAAAAAATTTTA TCCTTTGCGTT GAAAATATATA TAAAATATATA CAGGGGTTCAAAAAAATTTTA TCCTTTTGCTT GAAATATAACAAAAAAAAAA	6121 TCACTCATTA GGCACCCCAGG CTTTACCATT GGCACT GGCCGTCGT TACAAACA 6300 6181 TTGTGAGCGG ATAACAATTT CACACCCAAG CTTTGTACAT GGAGAAAAA AAGTGAGAACA 6300 6241 GTGACTGGGA AAACCCTGGC TCTTACCCAT ACCGTTACTG TTACCCCCTG TGACAAAAAGC 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTACCCCCTG TGACAAAAAGC 6420 6301 AAGCACTATT GCACTGGCCC TGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6361 CGCCCAGGTC CAGCTGCTC GGGCTATAGGT AGTAGTTATA GTTGGTGCTA CCATAGGGAT 65400 6481 TGAGTACATT GGCTACGCTT GGGCTATAGGT AGTAGTATATA GTTGGTGCTA CGGTTTCCG 66600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC AATGGCGAAT GGCGCTTTGC CGATACGGTC 6720 6661 GCACCAGAACA CAGCAGTT AAGCCTGGATC TCCCTAAGAGC CAAACCGTAACC 6780 6661 GCACCAGAAC CAAACCGGAA AAGCTGGCTG AATGGCGAAA ACCGAGAAC CAAACCGTAACC 6780 6721 GTCCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAAT TATTTTTGAT 6900 6721 GTCCCCATTA CGGTCAAAAA AAGCTGGCTA CAGGAGAGGCC AGACCGCGAAT TATTTTTTGAT 6900 6721 GTCCCCATTA CGGTCAAAAA AAGCTGGCTA CAGGAGAGGCC AGACCGCGAAT TATTTTTTGAT 6900 6721 GTCCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGAAA ATTTAACCGCG AATTTTAACA 6960 6721 GCCTTTCTT AAAAATATTTG CATATGATTG ACATGCTACA AACCGGAT TTTACCATTA CAGCTTTGATA CATATTGATG 7080 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGCTACA ATTTTATC CAGCTAGAAC CATTACTCAG 7260 7081 ATTCTTTTTT AAAAATATTTA CAGGGGTCCAA AAAAATTTTA TCAGCTACAC CATTACTCAG 7320 7021 TCTGATTAC TTAAAAATATTAT GAGGGTTCAA AAAAATTTTAT TCAGCTACAC CATTACTCAG 7320 7321 GCATTGCAT TAAAAATATTAT GAGGGTTCAA AAAAATTTTAT TCAGATTATTAT TCAGATTAT TAAAATATTAT GAGGGTTCAA AAAAATTTTAT TCAGATTAT TTAAAAATATTAT TAAAATATTAT GAGGGTTCAA AAAAATTTTAT TCAGATTATTAT TAAAAATATTAT GAGGGTTCAA AAAAATTTTAT TCAGATTATTATTTTTTTTTT	6121 TCACTCATTA GGCACCCCAGG CTTTGGCACT GGCCGTCGTT TACABACTA 6300 6181 TTGTGAGCGG ATAACAATTT CACACGGTC ACTTGGCACT GGAGAAAATA AAGTGAAACA 6360 6241 GTGACTGGGA AAACCCTGGC CTTTACCCAAG CTTTGTACAT GGAGAAATA AAGTGAAACA 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6420 6301 AAGCACTATT CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6301 CCCCAGGTC CAGCTGCTC GGGCTATGGT AGTATTATA GTTGGTGCTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCCGCTT GGGCTATGGT AGTATTATA GTTGGTGCTA CCATAGGGAT 65600 6421 TAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TACTTAAAA ATTACCGCTT CCCAACAGGT GCGCAGCCTG AATTGCGAAT GGCGCTTTGCC CGATACCGGC 65600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAGCCTG GAGTGCGAAT GGCGCTTTACAC CTAGTTACCG 65720 6601 GATCGCCCTT CCCAACAGGT GCGCAGCCTG GAGTGCGAAT TACTTTTTGAT 6900 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CACGAGGCC AGACCGCGAAT TATTTTTGAT 6900 6721 GTCGTCCCATTA ATGTTGATGA AAGCTGGCTA CTTACAAAT TTTACCAATT TTTGGTGCCATTACAA TTTTTTAAAAAAAAAA	6121 TCACTCATTA GGCACCCCAG GCCGTCGTC ACTTGGCACT GGCCGTCGTT TACCAGACAC 6300 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTTGTACAT GGAGAAAATA AAGTGAAACC 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GTTACCCCTG TGACAAAAGC 6360 6301 AAGCACTGTT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCACTG CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCCTGCTG AGTCAGGCC TGCTAAAGCA ATAGCGAAGA GGCCCGCCACC 6600 6421 CTAGGCTAAA GGCTACGCTT GGGCTATGGT AGTAGTTATA ATTGTTCCG 6660 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAACCA ATAGCGAAGA GGCCCGCCACC 6780 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TACGATGCGAT TTCCTGAGGC CGATACCGGT 6720 6561 GCACCAGAAG CGGTGCCGGA AAACTGGCG AAAGCTGGCGAAC CCATCTACAC CAACGTAAACC 6780 6541 TATCCCCCT CAAACTGGCA GATGCCACGGT TACGATGCGC CCATCTACAC CAACGTAAACC 6780 6561 GCACCAGAAG CGGTCCAGCA GATGCCACGGT TACGATGCGC AGACGCGAAT TATTTTTAACA 6960 6721 GTCGTCCCCCT CAAACTGGCA AAACTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTAACA 6960 6781 TATCCCCATTA TGGTTAAAAA AATGATGGCTA CAGGAAGAAA ATTTAACGATT TTTGGGGGCTTT 7020 6901 GGCGTTCCTA TTGGTTAAAAA AATGATGTTG CTTATACAAAA ATTTAACGATTA CCGTTCAAA 7140 7021 TCTGATTATC AACCGGGGTA CATATGATTG ACATGATTAT CAGCTTAGAT AGCCTTTGTA GAACTACAGA 7140 7021 TCTGATTATC AACCGGGC ATTAATTTAT CAGCTAGAT AGCCTTTGTA GAACTACAAG 7200 7041 AATTATTACCA TGCTCCAGG CTTTCCCGGC CTTTCCCAC ATTAATTAT TACCATTA TTAATTGATA 7201 AATTATTACCA TGTTCCCGGC CTTTCCCAC ATTAATTAT CAGCTAGAT AGCCTTTGTA GAACTACAAG 7320 7321 AATTATACCAC TGTCTCCAGG CTTTCCCAC ATTAATTAT CAGCTAGAT AGCCTTTACAA CATATTGATG 7320 7321 AATTATTACCACT TGTCTCCAGC CTTTCCCACC CTTTCCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTCACC CTTTTCTTCACC CTTTTCTTCACC CTTTTTTTT
6061 ACGACAGGI I GCCACCCCAG GCTTTACACT TTATGCTILL GGCCGTGT TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TTACAAACAA 63600 6241 GTGACTGGGA AAACCATGT GTTACCCCAGT ACTTGTACACT GGCCGTCGT TTACACCTG GAGAAAATA AAGTGAAACA 63600 6301 AAGCACTATT GCACTGGCCAC TCTTACCGAT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAAGTGCTAC 6480 6421 CTAGGCTGAAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CCAATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCCAAGGC TGCTTAAGAA ATTGTTACAGG AGCCCCGCACC 6600 6481 TGAGTACATT GGCTACGCTT GGGCCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6541 TAAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6661 GCACCAGGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAAT TTCCTTACAC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCACGGAAA ATTTAACAGCGA TTCTTAAACA 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCACGGAAAA ATTTAACAGCGA TTTTTTTTAACA 69900 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAAGAAA ATTTAACAGCG AATTTTTAACA 6960 6721 GTCGTCCCCT TTGGTTAAAAA AATGGACTGGTA CAGGAAAGAAAAA ATTTAACAGCGA TTTTAACAAT TAAAATATTTG CTTAAACAAAAA CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAAATATTAAC GTTTACAAAT TAAAATATTTG CTTAAACAAAA AGCCTGGTTA AGCCTTTGTA CCGTTCATCG 7080 7021 TCTGATTACC AACCGGGTA CATAATTTAT CAGCTAGAAA AGCCTTTTTTAACAAT TTAACAATT TAAAATATTTA CAGCTAGAAA GGCTTTGTA CATATTGATG 7200 7081 ATTCCCTTGT TTGCCCCAGAA CTCTCCAGC ATTAATTTTT TTAACAATTA CAGCTTAAAAA AATGAGCTTAAAAA AATGAGCTAAAAAAAAAA	6061 ACGACAGGI I GCCACCCCAG GCTTTACACT TTATGCTILL GGCLGTGT TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGCCGTGTT TTACAAACAA 63600 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG TTGTGACACT GGCCGTGTGT ACGAGAAACA 63600 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAACA 63600 6301 AAGCACTATT GCACTGGCCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TAGATGGATC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAATAGGGAT 6540 6421 CTAGGCTGAAA GGCGATGACC CTGCTAAAGGC TGCATTCAAT AGTTTACAAG ACCAGGAACA 6540 6421 CTAGGCTGAAA GGCGATGACC CTGCTAAAGGC TGCATTCAAA ATTGTTACAAG ACCAGGAACAGT AGAGAAGAAAA ATAGCGAAGAA GGCCCCGCACC 6600 6481 TAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TTCTTAAACA ATAGCGAAGA GGCCCCGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TACGATGCGC CCATCTGAGGC CGATACCGGTC 6780 6661 GATCGCCCTT CCCAAACAGTT GCGCCAGCCTG GAGTGCGGAT TTCCTGAGGC CGATACCGGTC 6780 6661 GCACCAGGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGACA ATCCGACGGG TTGTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCAAGGGAAAA ATTTAACAGCGG TTGTTAACAA 6960 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAAGAC ATCTTACACCGAT TTTGGTTAACA 6960 6781 TATCCCATTA AGGTTAAAAA AATGAGCTGAT CAGGAAAGAC ATTTAACAGCG AATTTTAACA 6960 6781 TATCCCATTA CGGTCAAATT TAAATATTTG CTTATACAAT CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAATATTAAC GTTTACAAAT TAAATATTTG CTTATACAAT TTTTACCATTA CAGTTCATC ACCGTTCATCA 7080 7021 TCTCTTGTT TTGCTCCAGA CTCTCCAGCC ATGACCTGAT AGCCTTTTTT CATCTTCAAAAAAAATATTAT CAAACAAAT TAAATATTTA CAGCTAAAAA GGTTGAATA AATGAGCTAA AATGACTTAACAAT TAAAATATTAT CAGCTAGAAAC GGTTGAATAT CATATTGATG 7200 7021 GTGATTTGAC TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTTGTA GAATCTTCAAC 7140 7021 TCTCCTCCGC AAAAATATAAA GAGGGTTCATA AATTTTTTA TCCTTGCGTT TTAACCTTAACAATT TAAAATATTAT CAGGCTAAAAAAATATTAA CAGGGTTAATTTTTTAAAAA AATGATTTAA CAGCTAAAAAAAAAA	6061 ACGACAGGI I GCCACCCCAG GCTTTACACT TTATGCTILL GGCCGTGT TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TTACAAACAA 63600 6241 GTGACTGGGA AAACCATGT GTTACCCCAGT ACTTGTACACT GGCCGTCGT TTACACCTG GAGAAAATA AAGTGAAACA 63600 6301 AAGCACTATT GCACTGGCCAC TCTTACCGAT ACCGTTACTG TTTACCCCTG TGACAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAAGTGCTAC 6480 6421 CTAGGCTGAAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CCAATAGGGAT 6540 6481 TGAGTACATT GGCTACGCTT GGGCCAAGGC TGCTTAAGAA ATTGTTACAGG AGCCCCGCACC 6600 6481 TGAGTACATT GGCTACGCTT GGGCCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6541 TAAAATTATTC AAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6661 GCACCAGGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGATC TTCCTGAGGC CGATACGGTC 6780 6661 GCACCAGGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAAT TTCCTTACAC CGATACGGTC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCACGGAAA ATTTAACAGCGA TTCTTAAACA 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACCACGGAAAA ATTTAACAGCGA TTTTTTTTAACA 69900 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAAGAAA ATTTAACAGCG AATTTTTAACA 6960 6721 GTCGTCCCCT TTGGTTAAAAA AATGGACTGGTA CAGGAAAGAAAAA ATTTAACAGCGA TTTTAACAAT TAAAATATTTG CTTAAACAAAAA CTTCCTGTTT TTGGGGGCTTT 7020 6961 AAAATATTAAC GTTTACAAAT TAAAATATTTG CTTAAACAAAA AGCCTGGTTA AGCCTTTGTA CCGTTCATCG 7080 7021 TCTGATTACC AACCGGGTA CATAATTTAT CAGCTAGAAA AGCCTTTTTTAACAAT TTAACAATT TAAAATATTTA CAGCTAGAAA GGCTTTGTA CATATTGATG 7200 7081 ATTCCCTTGT TTGCCCCAGAA CTCTCCAGC ATTAATTTTT TTAACAATTA CAGCTTAAAAA AATGAGCTTAAAAA AATGAGCTAAAAAAAAAA	6061 ACGACAGGT GGCACCCCAG GCTTTACACT TTATGCTILL GGCCGTGTT TTACACT C6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTILL GGCCGTGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCCAT GGACAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG TTTACCCCTG TGACAAAACA 6360 6241 GTGACTGGGA AAACCCTGGCC GTTACCCGTT ACTGTTACTG TTTACCCCTG TGACAAAAGC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6480 6421 CTAGGCTGAA GGCGATGACC AGTCAAGGC TGCTTAAAGA AGTTTACAGG CAAATGGCAAC GAAGTGCTACCG 6660 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT AGTGGCGAAT GTTGGTGCTAC CAAAGGGAT 6540 6481 TGAGTACATT AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCAA ATAGCGAAGA GGCCCGCACC 6600 6541 GATCGCCCTT CCCCAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTGC CTGGTTTCCCG 6660 6541 GATCGCCCTT CCCCAACAGTT GCGCAGCCTG AATGGCGAAT TTCCTGAGGC CAACAGTAACC 6720 6661 GCACCAGAAG CGGTCCGGA AAGCTGCCTG AAAGTGCGCA ATCCGACGGA TTGTTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TTTTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTTTTTT	6061 ACGACAGGT GGCACCCCAG GCTTTACACT TTATGCTICC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TATGCTICC GGCCGTCGTT TTACAACGTC 6300 6121 TTGTGGGCG ATAACAATTT CACACGCGTC ACTTGGCACT GGAGAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 63400 6241 GTGACTGGGA GACACTGCTCG AGTCACGCTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 63400 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 63400 6361 CGCCCAGGTC CAGCTGCCG AGTCACGCTT ACCGTTACAAT AGTTTACAGG CAAAGTGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACCAGAAAA GGCCCAGCACC 6600 6421 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAGCA ATAGCGAAGAA GGCCCAGCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCCTGAAGGC CGATACGGTC 6720 6501 GCACCAGAAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGAT TTCCTGAGGC CAACGTAACC 6780 6541 TAACTCCCCT CAAACTGGCA GATGCACGGT TCCCACGGAGA ATCCGACGGG TTGTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT CAGGAAGGCC AGACGCGAAT TATTTTACCTG 6840 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTACCT 6900 6841 CTCACATTA ATGTTTAAAAA AATGAGCTGA TTTAACAAAA ATTTTAACAAAT ATTTTAACAAT TTTAACAAT TTTAACAATATTTACCAGCG AATTTAACAAT CTTTCCCTGTTT TTGGGGCTTT 7020 6901 GGCGTTCCCTA TTGGTTAAAAA AATGAGCTGA ATGACCTGAT AGCCTTTGTA GATCTCCAA 7140 7021 TCTGATTATC AACCGGGGTA CATAAGTTTA CCAGCTGAT AGCCTTTGTA GAATTTGAT 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTGAAC GGTTGAATAT CATATTGAT 7380 7261 GCATTGACTT TAAAAATATTA CAGGGTTCATA AAAATTTTA CCAGCTGAT GAATTTATTGG 7320 7261 GCATTGCCCT AAAAGTATTA CAGGGTTCATA ATGCTTTTAC TTTACCTGTAT GAATTTATTGG 7320	6061 ACGALAGGT GCCCCCAG GCTTTACACT TTATGCTICC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TATGCTICC GGCCGTCGTT TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGCCGAAAAATA AAGTGAAACA 6300 6241 GTGACCTGGGA AAACCCCTGGC GTTACCCGAG CTTTGTACAT GTTACCCCTG TGACAAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACTG TTTACAGG CAAGTGCTAC 6420 6301 AAGCACTATT GCACTGGCAC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG AAGTGCACC 6540 6421 CTAGGCTGAA GGCCACCCTT GGGCTATGGT AGTAGTTATA GTTGGTGCC CCATCAGGCAC 6500 6481 TGAGTACATT GGCTACGCTT GGGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCTATCCG 6560 6541 TAAATTATTC AAAAAAGTTTA CAGAGCCTG AATGGCGAAC GGCCCTTTTGCC CTGGTTTCCCG 6560 6541 TAAATTATTC AAAAAAGTTAA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTAACC 6780 6721 GTCGTCCCCT CAAACTGGCA GATGCACGGT TACGATGCGC AGACGCGAAT TATTTTTGATA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGATA 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGAC TTTAACAAAA ATTTAACGGCG AATTTTAACAAT TAAAATATTAC GCCATCCAGAA AATTAACAAAA ATTTAACGATT TAAAATATTAA CAGCTGCATA TTTAACAAAAA AATTAACAAAA CTTTCCTGTTT TTGGGGCTTCAAACAATT TAAAATATTAT CAGCTAAAAAAAAAA	6061 ACGALAGGIT GCCCCCCAG GCTTTACACT TTATGCTICL GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GCGACCCCAG GCTTTACACT ACTTGGCACT GGAGAAAATA AAGTGAAACA 6300 6121 TCACTCATTA GCGACACAATTT CACACGCGTC ACTTGGCACT GGAGAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCGTT ACCGTTACTG TTTACCCCTG TGACAAAAACC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACTGTGCCCA GGGGATTGTA CTAGTGGAAT 6540 6301 AAGCACTATT GCACTGGCAC TCTTACAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6420 6301 CGCCCAGGTC CAGCTGCTC AGTCAGGCC TGCATTCAAT AGTTTACAGG CAAGTGCAAC 6540 6421 CTAGGCTGAA GGCCGATGACC CTGCTAAGGC TGCATTCAAA ATAGCGCAAGG CCGATACAGGC 6600 6421 TGAGTACATT GGCTACGCTT GGGCTATGGT AATAGCGCAATC TTCCTGAGGC CGATACAGGC 6520 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAAACAA ATAGCGCCCTTTCCCG 6520 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGGTGCGAAT TTCCTGAGGC CAACGTAACC 65840 6521 GTCGTCCCCT CAAACTGGCA GATGCACCGT TACGATGCGC CCATCTACAC CAACGTAACC 65840 6521 GTCGTCCCCT CAAACTGGCA GATGCACCGT TACGATTACACC 65840 6521 GTCGTCCCCT CAAACTGGCA GATGCACCGT TACGATTACACC 65840 6521 GTCGTCCCCT CAAACTGGCA GATGCACCGT TACGATTACTCG 6840 6531 TATCCCATTA ATGTTGAAAA AATGAGCTGA TTTAAACAAAA ATTTAACGCGA AATTTTAACA 6960 6531 TATCCCATTA ATGTTGAAAA AATGAGCTGA TTTAACAAAT CTTCCTGTTT TTGGGGCCTTT 7020 6531 TATCCCATTA TTGGTTAAAAA AATGAGCTGA TTTAACAAAA CTTTCCTGTT TTGGGGCCTTT 7020 6541 TCACATTAT AAATATTTG CTTATACAAAT CTTCCTGTT TTGGGGCTTT 7020 6541 TATCCCATTA ATGTTAAAAA AATGAGCTGA TTTAACAAAA CTTTCCTGTT TTGGGGCCTTT 7020 6541 TATCCCATTA ATGTTAAAAA AATGAGCTGA TTTAACCAAT TTTACCCGGTT TTAGCTCCAA 7140 7021 TCTGATTATC AACCGGGGTA CATTAATTTTG CTTATACAAAT TTTACCTACA CATTACTCCAG 7220 7031 ATTCTCTTGT TTGCTCCAGC CTTTCCACC CTTTTCACC CTTTTGAACT TTAACTCAG 7320 7141 AAATAGCTAC TTAAATTATT GAGCTTCAA AAAATTTTTA TCCTACCGTT TAAGCTTTAT 7380	6061 ACGACAGGT GCCCCCAG GCTTTACACT TTATGCTILL GGCTCGTC TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TTACAACGTC 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GTTACCCCTG TGACAAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCGTT ACCGTTACCTG TGACAAAAAGC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT ACCGTTACCTG TGACAAAAAGC 6420 6301 CGCCCAGGTC CAGCTGCTCG AGTCAGGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCCATGACC CTGCTTAAGGC TGCATTCAAT AGTTTACAGG CCCATACGGCAC 6660 6421 TAAATTATC AAAAAAGTTT GCGCAGCCCTG AATGGCGAAT TTCCTGAGGC CCGATACGGTC 6720 6541 TAAATTATC AAAAAAACTTT GCGCAGCCCTG GAGTGCGAAT TCCCTGAGGC CGATACGGTC 6720 6601 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAAT TTCCTTACAC CAAACGTAACC 6780 6721 GTCGCCCCT CAAACCTGGCA GATGCACGGT TACGATGCGC CCATCTACAC CAACGTAACC 6840 6721 GTCGCCCCT CAAACCTGGCA GATGCCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6721 GTCGCCCCT CAAACCTGGCA GATGCCACGGT TACGATGCGC AGACGCGAAT TATTTTTGAT 6900 6721 GTCGCCCCT CAAACCTGGCA AAGCTGGCTA CAGGAAAGGCC AGACGCGAAT TATTTTTTGAT 6900 6721 GTCGCCCATTA CTGGTTAAAAA AATGAGCTGA CTTAACAAAA ATTTACGATTA CCGTTCATCG 7080 6721 GTCGCTCCTA TTGGTTAAAAA AATGAGCTGA ACTTACCAAT CTTCCTGTTT TTGGGGGCTTT 7020 6731 AATTTTACCAATT AACCAGGCA ATTAATTTAT CAGCTAGAAC GGTTGAATTA CATATTGATG 7200 7081 ATTCCCTTTGT TTGCCTCCAGA CTCTCCAGGCA ATGACCTGAT AGCCTTTGTA CATATTGATG 7200 7141 AAATATTACA TTTCCCGGC CTTTCCCACC CTTTCTCACC CTTTTACCACT TTTACCAATT CATATTGATG 7200 7141 AAATATTACA TTGCTCCCGGC CTTTCCCACC CTTTTCTCACC CTTTTCTTCACC CTTTTTTTT
6061 ACGACAGGTT TCCCGACTGG AAAGCGGGGA GIGAGCGCTTC GGCTCGTATG TTGTGTGGAA 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTT TTACAACTT TACAACTT GGCACCCCAGGT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6300 6181 TTGTGAGCGG ATAACAATTT CACACGCGTT ACTTGGCACT GGAGAAAAATA AAGTGAAAAAG 6340 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GTTACCCCTT GAGAGAAAAAA AAGTGAAAAAG 6340 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTCCCA TTTACCCCTT GTTACCCCTT GAGAGAAAAAG 6340 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTCCCAA AGTTTACAGG CAAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC TCTTACCGTT ACTGTGCCCA AGTGTGCTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC TCTTACAGGT AGTAGTTAAA AGTTTACAGG CAACGGACC 6600 6421 TAAAATAATTA CAAAAAAGTTTA CGAGCAAAGGC TTCTTAAAGCA ATAGCGGAAGA CGCCCGCACC 6600 6421 TAAAATAATTA CCCCAACAGTT GCGCAACCCTGACT AATGGCGAAT GTCCTGAGGC CGATACGGTC 6720 6501 GACCCAGAAAC CGGGCA AAGCTGGCTG AATGGCGAAT TCCCTGAGGC CGATACGGTC 6720 6501 GACCCAGAAAC CGGCCA AAGCTGGCTG GAGTGCGAT TTCCTGAGGC CGATACGGTC 6720 6501 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TCCCGACTGG AAAGCGGGGA GIGAGCGCTTCC GGCTCGTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACTT TTATGCTTCC GGCTCGTT TTACAACGTC 6300 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6300 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCGTCGTT TTACAACACT AACACGTC 6300 6121 TCACTCATTA GCACTGGCAC TCTTACCGTT ACTTGCCCCA GGGAAAAAAA AAGAGAACA 63400 6241 GTGACTGGGA AAACCCTGGCCAC TCTTACCGTT ACTGTCCCCA GGGATTGTA CTAGTGGAACAAAAAGC 6360 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGGCT ATTGTCCCAA AGTTTACAGG CAAAGTGCTAC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGGCT ACTGTTCAAT AGTTTACAGG CAAAGTGCTAC 6480 6421 CTAGGCTGAT GGCTAACGCTT GGGCTATGGT AGTAGTTAAA ATACAGAGA GGCCCGCACC 6600 6421 TAAAATAATTA CCCCAACAGTT GCGCAACCCTA AATGGCGAAT GCCCGCACC 6600 6541 TAAAATAATTA CCCCAACAGTT GCGCAGCCTGAAT AAGCGCGAAAT CTCCTGAGGC CGATACGGTC 6780 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAAT TTCCTGAGGC CGATACGGTC 6780 6561 GCACCAGAAG CGGTCCGAAACTGGCCA GATGCACGGT TACGATGCGC CCATCTACAC CAACCTGACC 6840 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TTTAACCTTAACTTAA	6061 ACGACAGGTT TCCCGACTGG AAAGCGGGGA GIGAGCGCTTC GGCTCGTATG TTGTGTGGAA 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTT TTACAACTT TACAACTT GGCACCCCAGGT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6300 6181 TTGTGAGCGG ATAACAATTT CACACGCGTT ACTTGGCACT GGAGAAAAATA AAGTGAAAAAG 6340 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GTTACCCCTT GAGAGAAAAAA AAGTGAAAAAG 6340 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTCCCA TTTACCCCTT GTTACCCCTT GAGAGAAAAAG 6340 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTCCCAA AGTTTACAGG CAAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC TCTTACCGTT ACTGTGCCCA AGTGTGCTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC TCTTACAGGT AGTAGTTAAA AGTTTACAGG CAACGGACC 6600 6421 TAAAATAATTA CAAAAAAGTTTA CGAGCAAAGGC TTCTTAAAGCA ATAGCGGAAGA CGCCCGCACC 6600 6421 TAAAATAATTA CCCCAACAGTT GCGCAACCCTGACT AATGGCGAAT GTCCTGAGGC CGATACGGTC 6720 6501 GACCCAGAAAC CGGGCA AAGCTGGCTG AATGGCGAAT TCCCTGAGGC CGATACGGTC 6720 6501 GACCCAGAAAC CGGCCA AAGCTGGCTG GAGTGCGAT TTCCTGAGGC CGATACGGTC 6720 6501 GCACCAGAAAC CGGCCA AAGCTGGCTG GAGTGCGAT TCCCTGAGGC CAAACTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA GACGGGT TACAGATGCCC CCATCTACAC CAACGTAACC 6840 6721 GTCGTCCCTT CAAACTGGCA GACGGGTT CAGGAAAGGCC AGACGGAAT TATTTTTGAT 6900 6721 GTCGTCCCTT ATTGGTTAAAA AATGAGCTGAT CAGGAAAGACAAAA ATTTAACGCG AATTTTAACA 6960 6841 TAATTTAAC GTTTACAATT TAAAATATTTG CTTATACAAAT CTTCCTGTTT TGGGGGCTTT 7020 6961 AAAATATTAAC GTTTACAATT TAAAATATTTA CAGGCTAAACACAAA ATTTACCAAC CATTACTCATC 7080 6721 TCTGATTATC AACCGGGGTA CATATGATTG TTTAACAAAT TTTTACAATT TAAAATATTTA CAGGTTAAAATATTTAA CAGGTTAAAATATTTAA CAGGTTAAAATATTTAA CATTTTATACAAT TTTACCATCA CATTACTCAG 7200 7081 ATTCCCTTGT TTGCTCCAGA CTCTCAGGCA ATGACCTGAT AGCCTTTTGAAC CATTACTCAG 7200 7081 ATTCCCTGGC AAAAATATTTA CAGGGTCATA AAAATTTTAA TCCTTTGAAT TAAAATATATTAT CAGGCTCATA AAAATTTTAA TCCTTTGAAC TTTACCTACA CATTACTCAG 7200 7141 AAAATAGCTAC CTCTCCAGA CTCTCAGGCT TTTATCTCACC TTTTTTGAAC TTTACCTACA CATTACTTAG 7320 7261 GCATTGAAGC TTTATTTTTTA CAGGGTCATA 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GCACCACATTA CGGTCAATCC CCCCGTTTGTT CCCACCGGAGA ATCCCGACGGG TTGTTACTCG 6840 6721 GTCGTCCCCT CAAACTGGCA GATGCCACGGT TACGATGCGC CCATCTACAC CAAACGTAACC 6720 6661 GCACCACATTA TTTGGTTAAAA AAGCTGGCTA CAGGAAGGCC AGACGCGAAT TATTTTTGAT 6900 6841 CTCACATTTA ATTTGATGAAA AATGAGCTGA TTTAACAAAA ATTTTTTTGAT 6900 6841 CTCACATTTA ATTTGGTTAAAAA AATGAGCTGA TTTAACAAAA ATTTCCTTTGT TTGGGGGCTTT 7020 6901 GGCGTTCCTA TTTGGTTAAAAA AATGAGCTGA ACATGCTAGT TTTACCGAT AGATCTCCAA 7140 7021 TCTGATTATC AACCGGGCTA CATATGATTA CACGGGAACAACCCATTACCCAACAACAAAAAAAAAA	6061 GCACCAGGAT TCCCGGCCCAG AAAGCCGGGCA GGCTCCAC GGCTCGTATG TTGTGTGGAA 6180 6181 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCACT GGCCGTCGTT TTACAAACGTC 6240 6181 TTGTGAGGGG AAAACAATTT CACACGCGT ACTTGGACAT GGAGAAAATA AAATGAGACA 6360 6241 GTGACTAGGG AAAACCCTGGC GTTACCCAAG CTTTGTACAAT GGAGAAAATA AAATGAGGATC 6420 6361 AAGCACTATT CACACTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TCACAGAAAACG 6360 6361 CGCCCCAGGTC CAGCTGCTAAGGC TGCATTCAAT AGTTGACCCTG CCATAGGGATC 6540 6421 CTAGGCTGAA GGCCACCTAGGCCT AGCGTTACTAA GTTTGTGCCTA CCATAGGGATC 6540 6421 CTAGGCTGAAA GGCCACCTTTACACAT GGCCAACACACTT GGCCTACGCT TGCACTTAAGCA ATAGCGAAAA GGCCCCGCACC 6560 6541 TAAATTATTC AAAAAAGTTTA CGGCAGCCAGGC TTCTTAAGCA ATAGCGAAGA GGCCCGCACC 6580 6541 TAAATTATTC CACACAGGA AAGCTGGCTG GAGTGCCGAAT TACCTTGACC CGATACGGTC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTT CCCCACCGGAGA ATCCCGACGGG TTGTTACACA 6661 GCACCAGTAA CGGTCCCGGA AAGCTGGCTT CCCCACCGGAGA ATCCCGACCGGG TTGTTACACA 6661 GCACCACTTA CGGTCCAATCC GCCGTTTTTT CCCCACCGGAGA ATCCCGACGGG TTTTTAACAAAT CACACACATTA ATGTTGATGA AAGCTGGCTA CCCCCGGCAC AGACCCCGAAT TATTTTTACACAATT TACCATTA ATGTTGATGA AAGCTGGCTA CCCCCGGCAC AGACCCCGAAT TATTTTTACACACCGAT TTTGGGGCTTT TTGGGGCTTT TTGGTTTATTGATTAT TTGGTTTATTTTTTTTTT	6061 GCCCCAGGAT TCCCCGGC AAAGCGGGCA GTGAGCCTCA GGCTCGTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGGCACT GGCCGTCGTT TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTTGGCACT GGAGAAAATA AAGTGAAAAAC 6360 6241 GTGACTGGGA AAACCCTGGCC GTTACCCAGG CTTTGTACAT GGAGAAAATA AAGTGGATC 6420 6301 AAGCACTATT GCACTGGCCC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAACC 6420 6301 AAGCACTATT GCACTGGCCC TCTTACCGTT ACCGTTACTG TTTACCACTG TCAAGTGGATC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAA AGTTTACAGG CAAGTGCTAC 6660 6421 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TACTGTACAC ATAGCGAAGA GGCCCGCACC 6660 6421 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TACTGTACAC CCAACAGTT GCGCACCAGAACGC CCAACAGGC CCAACAGAC CCAACAGAC 66720 6541 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TACGATGCGCC CCATCTACACAC CAACAGTTACCG 6680 6541 TAAATTATTC AAAAAAGTTTA CAGCCAGGAGA ATCCGACACGGC TACGATCCGGC 66720 6561 GCACCAGAAG CGGTCAATCC GCCGTTTGTT CCCCACGGAGA ATCCGACACGGC TTGTTACACAC 66840 6721 GTCGTCCCCTT CGGACAACTGGCA GATGCACGGT TACGATGCGC CAACCGCGAAT TATTTTTGAT 6900 6781 TACCACTTTA ATGTTGATGA AAGCTGGCTA CAGGAAGACC ATTAACAAAA ATTAACAAAA ATTTAACAAAT TTAAAATATTTA CAGCTTAGAT AGCCTTTGTA CAGTTCACCG 7080 6781 TACCACTTTAT AAATATTTAT CAGCTGAAAC ATTTACCAATT CAGCTTCCAACACTTTACACAC ATTAACAAAT CTTCCTGTTT TTGCCTCCAACACTT TAAAATATTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7081 AATCCTTTGT TTGCTCCCGGC ATTAATTTAT CAGCTAGAAC GGTTGAATAT CATATTGATG 7200 7141 AAATAGCTAC CCTCTCCGGC ATTAATTTAT CAGCTAGAAC CGTTGCGTT GAAATAATATAT GAGCGTTCAA	6001 GCGCCAGGTT TCCCCAGCTGG AAAGCGGGGA GIGAGCCTCAC GGCTCGTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGGCACTT GGCCGTCGTT TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACCACGGTC ACTTTGTACAT GGAGAAAATA AAGTGAAAAAC 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GGAGAAAACTA CATTACTAC 6420 6301 AAGCACTATT GCACTGGCC TCTTACCGTT ACCGTTACTG TGTACCCCTG TGACAAAAAGC 6420 6301 AAGCACTATT GCACTGGCC TCTTACCGTT ACCGTTACAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 65400 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG ACCGCAACG 6660 6421 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTCTTAACAAAT GGCGCTTTGC CTGGTTTTCCG 6660 6481 TGAGTACATT GCGCCAGCTT GGGCAGCCTG AATGGCGAAGA GGCCCTTTGC CTGGTTTTCCG 65840 6501 GATCGCCCTT CCCAACAGTT GCGCCAGCCTG AATGGCGGAT TCCCTGAGGC CAACGTAACCG 65780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG AATGGCGGAC ATCCGACGGAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAAGAC ATCCGACGGAT TATTTTTGAT 6900 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA CAGGAAGAC ATTCCTGTTT TTGGGGGCTTT 7020 6901 GGCGTTCCTA ATGTTGATGA AAGCTGGCTA CAGGAAGAC ATTCCTGTTT TTGGGGGCTTT 7020 6901 GCGCTTCCTG ATTCACAATT TAAATATTTG CTTATACAAAA ATTTCCTGTTT TTGGGGGCTTT 7020 7021 TCTGATTATC AACCGGGGA CATTAATTTAT CAGCTAGAAC ACTTTCACAC CATTACTCAA 7140 7021 TCTGATTATC AACCGGGC ATTAATTATT ACAATATTTAT CAGCTAGAAC ACTTTCACAC CATTACTCAA 7200 7081 ATTCCCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT TTTACCAATT GAAATATTAT CAGCTAGAT TATATTTGAT 7200 7081 ATTCTCTTGT TTGCTCCAGA CTCTCCAGGCA ATGACCTGAT TTTACCAACTTTA AACATATTAT TAAATATTAT CAGCTAGAAC CATTACTCAG 7320 7141 AAATAGCTAC CCTTCCCGGC CTTTCTCACC CTTTTTGAATTTTA TCCTTGCTT GAAATATTGAT 7380	6001 ACGACAGGTT TCCCGGACTGG AAAGCGGGCA GIGAGCTCCTATG TTGTGTGGAA 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TATGCTTCC GGCTCGTTTTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TATTGGCACT GGCCGTCGTT TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAACA 6360 6241 GTGACTGGGA AAACCCTTGGC GTTACCCCAAG CTTTGTACCAT GGGGATTACAGG CAAGTGCTAC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTACAGG CAAGTGCTAC 6420 6361 CGCCCAGGTC CAGCTGCTC GGGCTATGGT AGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TACATTCAAT AGTTGGTGCTA CCATAGGGAAT 65600 6421 TAAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TACATTCAAA ATAGCGAAAGA GGCCCCGCACC 66720 6421 TAAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TACGGAGAAT GGCGCTTTGCC CGATACGGT 66720 6541 TAAAATTATTC AAAAAAGTTTA CAGGCAAAGGC TACGGAGAGA CCGATACGGT 66720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGAAT TACCACC CAACGTAACCC 6780 6721 GTCGTCCCCT CAAACAGGT AAGCTGGCTG TACGATGCGACGGG TTGTTACCAC CAACGTAACC 6780 6721 GTCGTCCCCTT CAAACTGGCA GATGCACGGT TACGATGCGACGGAT TATTTTTGAT 6900 6781 TATCCCATTA ATGTTGATGA AAGCTGGCTA CAGGAGAAAA ATTTAACCGCG AATTTTAACA 69960 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGAGAAA AATTTAACAAT TTGGGGCTTT 7020 6781 TCCCACATTTA ATGTTGATGA AAACTGGGCTA TTTAACAAAA ATTTTAACAAT TTGGGGGCTTT 7020 6781 TCCCACATTTA AACCGGGGTA CATATGATTG CTTATACAAT CATCCTGTT TTGGGGGCTTT 7020 6781 TCCCACATTTA AACCGGGGTA CATATGATTG CTTATACAAAA ATTTTGAT CATCTTCACA 7140 7021 TCTGATTATC AACCGGGGAA CTCTCAGGCA ATGACCTGAT AGCCTTTGAT CATCTTCACA 7140 7081 ATTCTTTGT TTGCTCCAGGC ATTATTTAT CAGCTAGAAC GGTTGAATAT CATCTTCACA 7140 7141 AAATAGCTAC CTTCTCCAGGC ATTATTTAT TCCTTGACA CATTACTCAG 7320
6001 ACGACAGAT ACGCAAACCG CCTCTCCCCCG GTGAGCGAA CGCAATTAAT GTGAGTTAGC 6180 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA TTATGCTTCC GGCTCGTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG CACACCCAG TTATGCTTCC GGCCTCGTATG TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGAGAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GTTGACCCTG TGACAAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGC CTTTACCGTT ACCGTTACCGT TTACCCCTG TGACAAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG ACTGCAAGGCC ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6420 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CCCCCCCCCC	6001 ACGACAGAT TCCCGACTGG AAAGCGGGCCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC 6180 6121 TCACTCATTA GGCACCCCAG CTTTACACT TTATGCTTCC GGCCTCGTATG TTGTGGAA 6240 6121 TCACTCATTA GGCACCCCAG CTTTACACT TTATGCTTCC GGCCTCGTATG TTACAACGTC 6240 6121 TCGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGAGAAAATA TAAGTGAAACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGAAAATA AAGTGGAACA 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACCAT GGAGAAAATA CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6360 6301 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6421 TAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TTCTTAAAGCA ATAGCGAAGA GGCCCCGCACC 6500 6481 TGAGTACATT GGGTACGCTT GGGCTATGGT AATGGCCAA ATAGCGAAG CGCCCGCACC 6500 6541 TAAATTATTC CCCAAACAGTT GCGCAACGGT AATGGCCAAT GGCCACTTTGC CTGGTTTCCG 6660 6541 TAAATTATTC CCCAAACTGGCA AAGCCTGGCTG AATGGCCAT GGCCGCAAT TATTTTTGAT 66720 6661 GCACCAGAAG CGGTGCCGGA AAGCCTGGCTG GAGTGCGATC TTCCTGAGGC CCAAACTGAACC 6780 6721 GTCGTCCCCT CAAACTGGCA AAGCCTGGCTG GAGTGCGATC TTCCTGAGGC CCAAACTGAACC 6780 6721 GTCGTCCCCT CAAACTGGCA AAGCCTGGCTG CAAACTGCAC CAAACTGAACC 6780 6721 GTCGTCCCCT CAAACTGGCA AAGCCTGGCTA CAGGAAGGCC CAATTTTAACAAT TATTTTTGAT 6900 6721 GTCGTCCCTT TTGGCCCATT TAAACAATATTTG CTTATACAAT TTTACCGATTA CCGTTCATCA 7080 6731 TATTCCCATTA TTGGTTAAAAA AATGAGCTGAT TAAACAAAAA ATTTAACCAAT TTTACCAATT TTACGTTTAACAAT TAAACTATTAACCAAT TTAACAATTTAACCAAT TAAACTATTAACCAAT TTAACAAT TTAACCAAT TAACAA	6001 ACGACAGAT ACGCAAACCG CCTCTCCCCCG GTGAGCGAA CGCAATTAAT GTGAGTTAGC 6180 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA TTATGCTTCC GGCTCGTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG CACACCCAG TTATGCTTCC GGCCTCGTATG TTACAACGTC 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGAGAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GTTGACCCTG TGACAAAAAGC 6360 6241 GTGACTGGGA AAACCCTGGC CTTTACCGTT ACCGTTACCGT TTACCCCTG TGACAAAAAGC 6420 6361 CGCCCAGGTC CAGCTGCTCG ACTGCAAGGCC ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6420 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CCCCCCCCCC	6001 ACGACAGGT TCCCGACTGG AAAGCGGGGCA GTGAGCGAATTAAT GTGAGTTAGG 6180 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGGCA GTGAGCTCGTAT TTTGATTGGAA 6180 6061 ACGACAGGTT TCCCGACTGCA AAAGCGGGCC TTATGCTTCC GGCCTCGTAT TTACAACGTC 6240 6181 TCACCTCATTA GGCACCCCCAG AAAACCACGCGTC ACTTGGCACT GGAGAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAAACCATTT CACACGCGTC ACTTGACCAT GGAGAAAATA AAGTGGAACA 6360 6241 GTGACTGGGA AAACCATTT GCACTGGCCT ACTTTACCGTT ACCGTTACCCTG TGACAAAAGC 6480 6301 AAGCACTATT GCACTGGCCC CTCTTACCGCTT ATTGTGCCCA GGGGATTCAAG CCAAGTGCTAC 6480 6301 CGCCCAGGTC CAGCTGCCC AGTCAGGCC TGCATTCAAT ACTTTACAGG CAAGTGCTAC 6480 6481 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT ACTTTACAGG CAAGTGCCAC 6500 6481 TGAGTACATT GGCTACGCTT GGGCTATGGT ATTGTGCCCA ATAGCGAAGA GGCCCGCACC 6600 6541 TAAAATTATC AAAAAAGTTTA CGAGCCAAGGC TACTGAACAAT GGCGCTTTGCC CTGGTTTCCG 6660 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG AATGGCGAAT TCCCTGAGGC CCAATACGGT 66720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGGC CCATCTTACAC CAACCGTAACC 6780 6721 GTCCTCCCCT CAAACTGGCA GATGCACGGT TACGATGGC CCATCTACAC CAACCGTAACC 6780 6721 GTCCTCCCCT CAAACTGGCA AAGCTGGCTA ATTGACAAAA ATCCGAGGGG TTGTTACCAG 780 6721 GTCTTCTTA TGGTTAAAAA AATGAGCTGA TTTAACAAAA ATCCGAGGGG TTTTTTTTTT	6001 ACGACAGAT ACGCAAACCG CCTCTCCCCC CGCGCAAA CGCAATTAAT GTGAGTIAGA 6180 6011 ACGACAGGTT TCCCGACTGG AAAGCCGGCGCAA CGCAATTAAT GTGAGTIAGAA 6180 6012 TCACTCATTA GGCACCCCAG CTTTACACCT TTATGCTTCC GGCTCGTT TTACAACCAC 6340 6121 TCACTCATTA GGCACCCCAG CACACGCGTC ACTTGGCACT GGCAGAAATA AAGTGAAAACC 63300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAAACC 63400 6241 GTGACTGGGA AAACCCTGGCC TCTTACCGGTT ACCGTTACTG TTACACCCTA TGACAAAAACC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGGCT TATTCAAT AGTTTACAGG CAAAGTGCTAC 65400 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCC TGCATTACAAT AGTTTACAGG CCAAAGTGCTAC 65400 6481 TGAGTACATT GGCTACGCTT CGGAGCAAGGC TTCTTAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6541 TAAAATTATTC AAAAACATTTA CGGAGCAAGGC TACGATGCGAATC TCCCTGAGGC CGATACCGGTC 6720 6601 GATCGCCCT CCAAACAGTT GCGCAGCCTG AATGGCGAATC TCCCTGAGGC CGATACCGGTC 6720 6601 GACCCAGAAG CGGTGCCGGA AAGCTGGCT TACGATGCGC CCATCTACAC CAACGTAACC 68400 6611 GCACCCAGAAG CGGTGCCGGA AAGCTGGCT TACGATGCGC ATCCGACGGG TTGTTACAC 68400 6612 GTCGTCCCCT CAAACTGGCA GATGCCAGGT TACGATGCGC AAATTTACAC 68400 6613 GTCGTCCCCT CAAACTGGCA GATGCCAGGT TACGATGCGC AAATTTTACAC 68400 6614 TAAATATTAC CGGTCAATCC CCCCTTTGCT TTACGATGCGCAAT TATTTTTACACAC AAATTTTACACACCGAAT TATTTTTACACACCGAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATTTTTACACACCACAAT TATATTTACACACCACAAT TATATTTTACACACCACAAT TATATTTTACACACCACAAT TATATTTTACACACCACAAT TATATTTTACACACCACAAT TATATTTTACACACCACAATAATTACACACCACAAT TATATTTTACACACCACAAT TATATTTTACACACCACAATAT TAAAATATTAT CAGCTTACACCCACACACACACACACACACACACACACAC	6001 ACGACAGGTT TCCCGACTGG CCTTTCCCCC GGGGGGCGCAA CGCAATTAAT GTGAGTTAGA 6120 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGCGCGT TTACAACGTG 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCGTCGTT TTACAACGT 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCACCT GGCCGTCGTT TTACAACGT 6300 6241 GTGACTGGGA AAACCATGCC GTTACCCAAG CTTTGTACAT GGAGAAAAATA AAGTGAAAACC 63400 6241 GTGACTAGGA GCCACCCCAG CTTTACCCATT ACCGTTACTG TTACCCCTT AGATGGGATC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCCGTT ACCGTTACTG TTACCACTA CTAGTGGGATC 65400 6421 CTAGGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAAGTGCTAC 65400 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAAGTGCTAC 65400 6421 TAAATTATTC AAAAAAGTTTA CGGGCAAAGGC TTCTTAAAGCA ATAGCGGAAGA CCATAGGGGAT 65400 6421 TAAATTATTC CAAACAGTT GGGCAAGCCTG AATGGCGGATC TTCCTGAGGC CGATACCGGC 65000 6541 TAAATTATTC CAAACAGTT GGGCAAGCCTG AATGGCGGAAC CTCCTGAGGC CGATACCGGC 65780 6561 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG TACGATGCGC CCATCTACAC CAACGTTACCC 67800 6661 GCACCAGAAG CGGTCCAGAC GATGCACCGT TACGATGCGC CCATCTACAC CAACGTTACCC 67800 6721 GTCGTCCCCT CAAACTGCC GCCGTTTTGTT CCCACGGAGA ATCCCGACGAAT TATTTTTACAC 6900 6721 GTCGTCCCCT CAAACTGCC GCCGTTTTGTT CCCACGGAGAA ATTTTACCGATTA CACGTTCATCT 7020 6841 CTCACATTTA ATGTTGATGA AAGCTGGCTA TTTAACAAAAA ATTTTACACAAAAA ATTTTACCGATTA TTGGGGCTTT TAAAAATATTTA CAGGCTTCAAAAAA AATTTAACCAAAAAA TTTAACCAAAAA ATTTTACCGATTA CATATTGATG 7020 6901 AAATATTAAC GTTTACAAAT TAAAATATTTA CAGGCTTAAAAAAAA TTTACCAATTA GAACGGCAAAAAAA CTTTCCTCAACA CATTACTCAAGAACAAAAAAAAAA	6001 GGGGCCCAAT ACGCAAACCG CCTCTCCCCG GGGGGCGCAA CGCAATTAAT GTGGGTTAGA 6120 6061 ACGACAGGTT TCCCGACTGG AAAGCCGGGCT TTATGCTTCC GGCTCGTTT TTACAACCGAT 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCACT GGCCGTCGTT TTACAACCAA 6300 6121 TCACTCATTA GGCACCCCAG GCTTTACCCAAGCT TTATGCACT GGCCGTCGTT TTACAACCAA 6300 6121 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACT GGAGAAAATA AAGTGAAAACA 6300 6121 TTGTGACTGGGA AAAACCCTGGC GTTACCCAAG CTTTGTACAT GGAGAAAATA AAGTGAAAAACC 6340 6121 TTGTGACTGGGA AAACCCTTGC GTTACCCAAG CTTTGTGCCCA GGGGATTGTA CTAGTGGAT 6480 6121 CGCCCAGGTC CAGCTGCTCG AGTCAAGGC TACTTGTGCCCA GGGGATTGTA CTAGTGGAT 6480 6121 CTAGGCTGAA GGCGATGACC CTGCTAAAGGC TGCATTCAAT AGTTTACAGG CAAGTGGCACC 6600 6121 CAGGCCCAGGTC CAGCTGTACGCTT GGGCAAAGAA GGCCCGCCACC 6600 6121 CTAGGCTGAA GGCGATGACC CTGCTAAAGGC TTCTTAAAGAA AGCCCGGAAGA GGCCCCGCACC 6600 6121 CAGGCCCAGGTC CAGACAGGTT GGGCAAAGGC TTCTTAAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6121 CAAAATTATTC GACAACAGTT GCGCAAAGGC TTCTTAAAGCA ATAGCGAAGA GGCCCCGCACC 6600 6121 CAGGCCCAGAAG CGGTGCCGGA AAGCCTGGATC CCATCTACAC CAAACAGGTC 6720 6121 CAGGCCCAGAAG CGGTGCCGGA AAGCCTGGATC TTCCTGAGGC CCAACCGGACC 6600 6121 CAGGCCCAGAAG CGGTGCCCGGA AAGCCTGGATC TTCCTGAGGC CCAACCGGTC 6600 6121 CAGGCCCAGAAG CGGGTGCCGGA AAGCCGGATACCGGT TACCACGGAAA GGCCCTTACAC CAACCGGTAACCG 6600 6121 CAGGCCCAGAAG CGGGTGCCGGAAGAC AAGCCGGATACCGGT TACCACAGAAAAAAAAAA	6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCG GTGAGCGCAA CGCAATTAAT GTGAGTTAGL 6120 6061 ACGACAGGTT TCCCGACCGCG AAAGCGGGCCA GTGAGCGCAATTAAT GTGAGTTAGL 6120 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACACAC 6300 6121 TCACTCATTA GGCACCCCAG GCTTTACCCTT ACTTGGCACT GGAGAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAACCCTGGCC GTTACCCCAAG CTTTGTACAT GGAGAAAAATA AAGTGGAACA 6360 6241 GTGACTGGGA AAACCTGGCAC TCTTACCGTT ACCGTTACCT TTACCCCTT TTACCCCCTT TTACCCCCCTT TTACCCCCCTT TTACCCCCCCC
5941 CCAGGCGGTG AAGGGCAATC AGUTGTTGCC CGCGTTGGCC GATTCATTAA TGCAGLTGGC 6000 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCG GTGAGCGCAA CGCAATTAAT GTGAGTTAGC 6120 6061 ACGACAGGTT TCCGGACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGCA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTC GGCCGTCGTT TTACAACACGTC 6300 6241 GTGACTAGGA AAACCCTGGCC GTTTACCCCAG GCTTTACACT GGCACCCCTGT GAACAAACC 6300 6241 GTGACTATT GCACCTGGCC GTTTACCGCTT ACCGTTACAT GGAGAAAAAAAAAA	5941 CCAGGCGGTG AAGGGCAATC AGUTGTTGCC CGCGTTGGCC GATTCATTAA TGCAGCLGGC 6000 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCG GGCGCAACTTAAT GTGAGTTAGC 6120 6061 ACGACAGGTT TCCGGACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC 6240 6121 TCACTCATTA GGCACCCAG GCTTTACACT TTATGCTTC GGCCCTTGATG TTTATGTTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTC GGCCCTTGGTT TTACAACAGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT ACTTGGCACT GGCCGTCGTT TTACAAAACC 6300 6241 GTGACTAGGA 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ACTTGGCACT GGAGAAAAATA AAGTGAAAACC 6360 6121 GTGACTGGGA AAACCCCTGGC GTTACCCCAAG CTTTGTACCT GGAGAAAAATA AAGTGAAAACC 6360 6241 GTGACTAGT GCACTGGCAC TCTTACCCGTT ACCGTTACTG TTACCCCTG TGACAAAAGC 6360 6301 AAGCACTATT GCACTGGCAC TCTTACCGGT ACCGTTACTG TTACCCCTG TGACAAAAGC 6360 6301 CGCCCAGGTC CAGCTGCTCG AGTCAGGGCT ATTGTGCCCAA AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGGGTAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6480 6421 CTAGGGCTGAA GGCGATGACC CTGCTAAGGC TTCTTAAGCAA ATAGCGAAGA GGCCCCGCACC 6660 6481 TGAGTACATT GCCTACCCTT GGGCTATGGT ATTGTAAGTA ATTGGTGCTA CCATAGGGAT 6540 6541 TAAAATTATTC AAAAAAGTTTA GGGCAAGGCCT AATGGCGAAT TTCCTGAGGC CGATACCGGTC 6720 6661 GCACCAGAAG CGGGGCCAGAAC GCCGTTTGTT CCCCACAGAGG CTACCGAGGG TTGTTACTCG 6840 6721 TATCCCATTA ATGTTGATGA AAGCTGGCTG TACCAACAGAA ATTTAACGCG AATTTTAACACA AATTTAACACA AATTTAACACA AATTTAACACA AATTTAACACAATT TAAAATATTTA CCAGGAAGGCC AGACGCGAAT TATTTTTTGAT 6900 6841 CTCACATTAA AAACACTGGCA AAGCTGGCTA TTTAACCAAAA ATTTAACACAA TTTTTTTTAACACACATT TTTTTTTT	5941 CCAGGCCGAT AGGCAAACCG CCTCTCCCCC CGCGTTGGCC GATTCATTAA TGCAGGTTAGC 6120 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCC CGCGCAATTAAT TGCAGGTTAGC 6120 6061 ACGACAGGTT TCCCGACCGGGCA GTGAGCGCAA CGCAATTAAT TTAGGTTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACCGTC 6240 6181 TTGTGGAGCGG ATAACAATTT CACACGCGTC ACTTGGCACCT GGCCGTCGTT TTACAACAACCA 63600 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG TTTTGTACCCTG TGACAAAAACA 6300 6301 AAGCACTATT GCACTGGCAC TCTTACCGGTT ACCGTTACTG TTTACCCCTG TGACAAAAACC 6420 6301 AAGCACTATT GCACTGGCAC TCTTACCGGT ACCGTTACTG TGACAAAAACC 6420 6301 CCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGAA CCATAGGGGAT 6540 6421 CTAGGCTGAAA GGCGGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CCAAAGGGCAC 66000 6421 CTAGGCTGAAA GGCGGATGACC CTGCTAAGGC TGCATTCAAAT ATTACCAGGAAGA GGCCCCGCACC 66600 6421 TAAAATTATTC AAAAAGATTTA CGAGCCAAGCCT AATGGCGAAAT GGCGCTTTGCC CGATACCGGCAC 66800 6541 TAAAATTATTC AAAAAGATTTA CGAGCAGCCTG AATGGCGGAAT TACCTTCCG 66800 6651 GATCCCCCTT CCCCAACAGTT GCGCCAGCGCGA AATGGCCGAAT TACCTTTACAC 66800 6661 GCACCAGGAAG CGGTGCCGGA AAGGCTGGCTG GAGTGCCGAC ACCGCGAAAT TACTTTTAACA 66900 6661 GCACCACAGAAC CGGTCCCGGA AAGGCTGGCTA CCCACCGGAAAT TACTTTTAACA 66900 6661 GCACCACAAACAGTT AAAATATTTG CCCACACGGAAAAAA ATTTAACAGCG AAATTTTAACA 66900 6721 TCTCGTCCCCT CAAACTGGCAAAT TAAATATTTG CTTATACAAAA AATGAGCTTGAT AGCCTTTGTT TCCGGTTCATCAAAT TAAAATATTTG CTTATACAAAA AATGAGCTAGAT AGCCTTGAT AGCCTTTTTTTTTT	5941 CCAGGCGGTG AAGGGCAATC AGLIGITIGGC CGCGTTGGCC GATTCATTAA TGCAGGTTAGC 6120 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCC CGCGCAACTAAT TGTGAGTTAGC 6120 6061 ACGACAGGTT TCCCGCACTGG CAAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCATT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACCAC 6360 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCCACT GGACAAAAA AAGTTGAAAACA 6360 6241 GTGACTGGGA AAACCCTGGCC TCTTACCCGTT ACTTGGCACT GGACAAAAAAACC 63260 6241 GTGACTGGGA AAACCCTGGCC TCTTACCCGTT ACCGTTACACT GTTACCCCTG TGACAAAGGATC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCCAGGCC TGCTATACAC GGGGATTGTA CCAAAGTGCAAC 65400 6421 CTAGGCTGAA GGCCATCGCCC AGTCCAGGCC TCCTAAAGGC TGCATTCAAT AGTTTACAGG CAAAAAAGGTTTA CGAGCAAAAAAAAAA	5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6120 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCC CGCGTTGGCC GATTCATTAA TGCAGCTAGC 6180 6001 ACGCACAGGTT TCCCGACCTGG AAAGCCGGGCA GTGAGCGCAA CGCAATTAAT TTACGAGCTAGC 6180 6121 TCACTCACTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCACTA GGCACCCCAG GCTTTACCACT GGAGAAAATA AAGTGAAACA 6300 6121 TCACTCACTA GGCACCCCAG GCTTTACCCATT GGAGAAAAATA AAGTGAAACA 6300 6121 TCACTCACTA GGCACCCCAG GCTTTACCCATT GGAGAAAAATA AAGTGAAACA 6300 6121 TCACTCACTA GGCTACCCAGC TCTTACCCGTT ACTGTTACCCTG TGACAAAAAAC 6360 6121 GTGACTGGGA AAACCCTGGCC TCTTACCCGTT ACTGTTACACT GGAGAAAAAAA CCATTAGGGAT 6540 6121 TCACCAGGTC CAGCTGCCCG ATCACAGGCC TATGTTACACG CAAGTTGCCAC CAACGTAAC 6480 6121 CTAGGCTGAA GGCGATGACC CTGCTTAGGGC TGCATTCAAA AGTTTACAGG CAAGTTGCCAC 66800 6121 CTAGGCTGAA GGCGATGACC CTGCTTAGGT AGTAGTTATA GTTGGGGCACC 66800 6121 TAAATTATTC AAAAAGTTTA CGAGCAAAGGT AATGGCGAAT GGCGCTTTGCC CAAACCTGGTC 6520 6121 TAAATTATTC AAAACGTTA GGCCAGCCTG AATGGCGAAT TTCCTGAGGC CCAATACGGTC 6520 6121 TAAATTATTC CCCAACACTT GGGCAAGCCTG GAGTGCGAAA ATCCGAGGAAT TATTTTTACCCC 6520 6121 TAAATTATTAC CGGTCCAGAA AAGCTGGCTA CCCACGGAAA ATCCCAACGGAAT TATTTTTACCAC 6520 6121 TATCCCCATTA CGGTCCAGAACCTG TTACGAATACAAAAA ATTTAACCAC CAAACTGGCA AAGCTGGCTA CAAACTAGAT TAAATTATTT CCAACAAAAA AATTTAACCAC CAAACTGGCA AAATATTAAC CGGTCAAATT TAAATTATTT CCAACAAAAA AATTTAACGAAT TATTTTTAAAAA AAATATTTTA CCAACAAAAA ATTTAACGAAT TATTTTTAACAAT TTACCAATTAA AAATATTTAT CAACAATTAA TTACCAACTTAACAATT TAAAATATTTAT CAACAAAAAA AATTTAACCAAATT TAACAATT TAAAATATTTAT CAACAAAAAA AATTTAACCAACAAAAA AATTTAACCAAATT TAAAATATTTAT CAACAATTAACAAATT TAACAATT TAACAATT TAACAATT TAACAATT TAACAATT TAACAATT TAACAATT TAACAATT TAACAATT TAACAATTAAT CATTAACAATT TAACAATT TAACAATT TAACAATTAAT CATTAACAATA TAACAATTAAT CATTAACAATT TAACAATTAATT	5941 CCAGGCGGTG AAGGGCAATC AGCLIGTIGCC CGCGTTGGCC GATTCATTAA TGCAGCIGGC 6120 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCC CGCGTTGGCC GATTCATTA TGTGAGTTAGC 6120 6001 GGCGCCCAAT ACGCACACCG CCTCTCCCCC CGCGTCGAA CGCAATTAAT TTGGTGGAAA 6180 6001 ACGCACACGTT TCCCGACTGG AAAGCCGGCA CTTTACACT GGCCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCCGTCGTT TTACAACGAC 6300 6121 TCACTGAGGA ATAACAATTT CACACGCGTC ACTTGGCACT GGAGAAAATA AAGTGAAAACA 6300 6241 GTGACTGGGA AAACCCTGGCC GTTACCCGTT ACCGTTACTG GGAGAAAATA AAGTGAAACA 63600 6241 GTGACTAGGA GCCCTGGCAC TCTTACCGTT ACCGTTACTG GGAGAAAATA AAGTGGATC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGGCT ATTGTGCCCCA GGGGATTGTA CAAAGTGGTAC 6480 6361 CGCCCAGGTC CAGCTGCTCG AGTCAAGGC TGCATTCAAT AGTTTACAGG CAAAGTGCTAC 6540 6481 TGAGTACCATT GGGCTACGCTT GGGCTATGGT ACCGTTAGGC CCATCAGGGAT GGCCCGCACC 65600 6481 TGAGTACCATT GGGCTACGGT AAGGCTGCAGAA AATTGAGCGAAAA GGCCCCGCACC 65600 6541 TAAATTATTC CAAAAAGTTTA CGGGCCAAAGGC TCCTTTAACACAA GGCCCCGCACC 65780 6541 TAAACTATTA AAAAACGTTA CGGCCAAGGCT TACGATGCGC CCATCTACAC CAACGTAAACC 6780 6541 TAACCCATTA CGGTCCAGCA AAGCTGGCT TACGATGCGC CCATCTACAC CAACGTAAACC 6780 6541 TAACCCATTA CGGTCCAACACTTTTGTT CCCCACGGAGA ATCCCGACGGA TTTTTTGAT 6900 6541 TATCCCATTA CGGTCCAATCC GCCGTTTTGTT CCCACGGAGA ATCTTTTTTTTTT
5881 ACAGGATIII CUCCIGUES AGUARATOR	5881 ACAGGATIII LCCLUGUIGG AAGCATCTOCCCG CGCGTTTGGCC GTGAAAAGAA AAAAAAAAAAAA	5881 ACAGGATIII CUCCIGUES AGUARATOR	5881 ACAGGATTITI CGCCTGCTGG AGGCTGTTGCC CGTTCTCCCCG GATTCATTAA TGCAGCTGGC 6060 5941 CCAGGCGGTG AAGGGCAACC CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6120 6001 ACGACAGGTT TCCCGACTGG AAAGCGGCAC GTGAGCGCAA CGCAATTAAT TGCAGCTGGC 6120 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA TTATCACACT TTATGCTTCC GGCCCCCATT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACAT TATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACACT TTATGCTTCC GGCCGTCGTT TTACAACACTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACACT TTATGCACT GGCCCCCTGT TTACAACAGTC 6360 6241 GTGACTGGGA AAACCCCTGGC GTTACCCAAG CTTTGTACAT GGGAGAAAAAA AAACTGAAAAAG 6360 6241 GTGACTGGGA AAACCCCTGGC GTTACCCAAG CTTTGTACAT AGTTTACAGG CAAAGTGCAAC 6360 6361 CGCCCAGGCC CAGCTGGCCT ATTTGTGCCCA GGGGGATTGTA CTAGTGGATC 6420 6361 CGCCCAGGCC CAGCTGAGGCC TGCTAAAGGC TGCATTCAAT AGTTTACAGG CAAAGTGCAAC 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAAT AGTTTACAGG CAAAGTTTCCG 6660 6541 TGAGTACATT AGAAAAAGTTTA CGAGCAAAGGC TTTTAAACAA AAAGCCGAAAGA GGCCCCGCACC 6600 6541 TGAGTACAAT AAAAAAGTTTA CGAGCAAACGTT AAATTATTC AAAAAAAGTTTA CGAGCAAACGGT TACGATCAGA ATAGCGAAAAA AGCTGGCTA CTGCTAACCGC CCATCTACACC CAAACGTAAACC 6780 6780 GTGCTCCCCCT CAAACAGTT CAAAAAATTTACCACGAAAAAAAAAA	5881 ACAGGATIII CGCCIGCIGC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACACCGGC 6060 5941 CCAGGCGGTG AAGGGCAATCA ACGCCAACCG CCTCTCCCCG CGCGTTGGCC CGCAATTAAT GTGAGGTTAGC 6120 6001 ACGACAGGTT TCCCGAACTGG AAAGCGGGCA GTGAGCGCAA TCAATTA GTGAGGTTAGC 6120 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA TCATGT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GTTTACACCT TCTTGGCACT GGCCGAATTAAT AAAGTAAAAAA 6240 6121 TCACTCATTA GGCACCCCAG GTTTACACCT TCTTGGCACT GGCCGAATTAA AAAGTAAAAA 6240 6121 TCACTCATTA GGCACCCCAGGTC ATTTGGCACT GGCCGAAAAAAAAACA 63400 6121 TCACTCATTA GCACTGGCC GTTAACCCCAAG CTTTGTACAT GTACACCCTG TGACAAAAAAGC 63360 6121 TCACACGGGAA AAACCCTGGC GTTAACCCCAAG CTTTGTACAAT GTACACCCTG TGACAAAAAAGC 63400 6121 TCACACGGAA AAACCCTGGCC TCTTAACGCT ATTGTGCCCA GGGGATTGTA CTAAGTGGATA 68400 6121 TCAGGCTGAAAAAAAGTTTAA CGACCAAACGTTAAAAAAAAAA	5881 ACAGGATTII CGCCTGCTGC GGCTCTCCCCG CGCTCTCCCCG GGTCTCAAAAAAAAAA	5881 ACAGGATTII CGCCIGCIGG GOCATTOCCCC CGCTCTCCCCG GTCTCGCTG GTGAAAAGAAAA TAAACACTGGC 6060 6001 GGCGCCCAAT ACGCCAATC CCCCCCCCCCCCCCCCCC	5881 ACAGGATTIT CGCCTGCTG GGCGTTGCC GTTCTCGCTG GTGAAAAGAA AAAAAAACGCTGC 6060 6091 GGCGCCCAAT ACGCCAATC ACGCCAATC ACGCCAATC ACGCCAATC ACGCCAATC ACGCCAATC ACGCCAATC ACGCCAATCACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGTTAGC 6120 6061 ACGACAGGTT TCCCGACTGG AAAGCCGGGCA GTGAGCGCAAC CGCAATTAAT TTGTGAGAGA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCCC GGCCGTCGTT TTACAACGTC 6240 6181 TTGTGAGGGA AAACCCTGGC GCTTACCCT TTATGCATCT TTATGCATCATT AAGTGAAAACG 6360 6241 GTGACTGGGA AAACCCTGGC ACTTACCCGTT ACCGTTATCT TTATCACACTT TACAACAATA AAGTGAAAAACG 6360 6301 AAGCACAGATT GCACTGGCAC TCTTACCGTT ACCGTTATT TTATCAGG CAAGTGGAACAACAATT GCACTGAGGC ACTTACACT ATTGTGCCCAA GGGGAATTGTA CTAGTGGAAC 6540 6301 AAGCACACTGTT GCACTGAGGC TGCTAAGGC TGCTTAAGGC AGTTGTGCCAA GGCCCCGCACC 65400 6301 AAGCACTGAAA GGCCTTTTACACT ACCGTTATAA GTTGGTGCAA GGCCCCGCACC 65400 6301 CGCCCAAGGTC CAACAGTTT GCGCTATAGGT TGCTTCAAA GGCCCCGCCACC 65400 6481 TGAGTACATT GGCTAACGCTT CCGAACAGTT GCGCTATAGGT ACCGTTAACAC CTGGTTTCCCG 6660 6541 TAAATTATTC AAAAAAGTTTA CGGCCAAAGGC TTCTTAAAGCA ATTGGCGAATGC CCGATACCGGTC 6720 6561 GACCAGAAG CGGTGCCGGA AAGCTGGCT ACCGGTTGGATC TTCCTGAGGC CCAACGTAACC 6780 6561 GACCAGAAG CGGTCCAACCGGA AAGCTGGCT ACCGGTTACACC CAACGTAACC 6780 6661 GCACCAGAAG CGGCCAACCCGGA AAGCTGGCT ACCGGTTACACC CAACGTAACC 6780 6661 GCACCAGTAAC CGGTCAATCC GCCGTTTGTT CCCACCGGAAA ATTTTAACCA AATTTTAACA AATTTTAACA AAAACTGGCAATTTAAAATTTTAA ATTTTTAACAATTTAACAAAAAAAA
5821 CTAICLUSE CIRCLEGE GECANACCAG CGTGGACLGE GTGAAAAGAA AAACCACCT 6000 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGCC GATTCATTAA TGCAGCTGGC 6060 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCCTTTGCC GGCTTGATAA TGCAGCTGGC 6060 6001 GGCGCCCAATAAT ACGCAAACCAG CCTTCTCCCGC CGCGTTGGCC GATTCATTAA TGCAGCTGGAA 6180 6001 ACGACAGGTT TCCCCGACTGG AAAGCGGCCA GTGAGCGCAA CGCAAATAAT TTATGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA 6300 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT ACTTGGACT GGCCGTCGTT TTACAACACGT 6300 6241 GTGACTAGGAA AAACCCTGGCC GTTACCCAAG CTTTGTACAT GGAGAAAAAA AAAGCAAAAAAAAAA	5821 CITATUTUS CIRCUTSCITEG GECANACCAG CGTGGACLCG GTGAAAAGAA AAACCACCCT 6000 5881 ACAGGATTIT CGCCTGCTGG GGCAAACCAG CGTGGCC GATTCATTAA TGCAGCTGGC 6060 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCAAATTAAT TTGTGTGGAA 6180 6001 ACGACAGGTT TCCCGACTGG AAAGCGGCCA GTGAGCCGCAA GGCTCGTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA 6300 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6121 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTGGACT GGCCGTCCTT TTACAACACGTC 6300 6241 GTGACCAGAGA CACCCTGGC GTTACCCCAAG CTTTGTACCAT GGAGAAAAAA AAAGCCAGAACAC 6300 6241 GTGACCTATT GCCACGGCAC TCTTACCGTT ACCGTTACCA GGGGATTGAT CTAGTGGATC 6420 6361 CGCCCAAGGTC CAGCTGCTCG AGTCAGCGCT ATTGTGCCCAA GGGGATTGAT CTAGTGGAT 6540 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGCGCT ATTGTGCCAAA AGTTTACCAGA CAAAAGCAC 6480 6361 CGCCCAAGGTC CAGCTGCTCG AGTCAGCCTT ATTGTGCCAAA AGTTTACCAGC CAAAAGGAT 6540 6421 CTAGGGTACAATT GGCTAACGCTT GGGCTATGAGA TAGCGCAAAGA GGCCCGCACC 6600 6541 TAAAATTATT AAAAAGTTTA CGAGCAAAGGC TTCTTAAGCA ATGCGCAAAAA GGCCCGCACC 6600 6541 TAAAATTATC AAAAAAGTTTA CGGCCAGCCTG AAAGCCAGAAAAAAAAAA	5821 CTAICLUSE CIRCLEGE GECANACCAG CGTGGACLGE GTGAAAAGAA AAACCACCT 6000 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGCC GATTCATTAA TGCAGCTGGC 6060 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCCTTTGCC GGCTTGATAA TGCAGCTGGC 6060 6001 GGCGCCCAATAAT ACGCAAACCAG CCTTCTCCCGC CGCGTTGGCC GATTCATTAA TGCAGCTGGAA 6180 6001 ACGACAGGTT TCCCCGACTGG AAAGCGGCCA GTGAGCGCAA CGCAAATAAT TTATGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA 6300 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT ACTTGGACT GGCCGTCGTT TTACAACACGT 6300 6241 GTGACTAGGAA AAACCCTGGCC GTTACCCAAG CTTTGTACAT GGAGAAAAAA AAAGCAAAAAAAAAA	5821 CHATCLUSS CICCITICTES GECANACCAG COTTIGATE GEGANAAGAA AAACCACCT 6000 5881 ACAGGATTIT COCCITICTEC GECANACCAG COTTIGATE GEGANAAGAA AAACCACCT 6000 6901 CCAGGCGGTG AAGGGCAATCA CCCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACCCCAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGCA 6120 6001 ACGACAGGTT TCCCGACTGG AAAGCGGCCA GTGAGCCCCAA CGCAATTAAT TTATGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCTCGTATG TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GCCACCCCAG GCTTTACCACT ACTTGGCACT GGAGAAAAATA AAGTGAAACA 6300 6241 GTGACTGGGA AAACCATTT CACACGCGTC ACTTGGCACT GGAGAAAAATA AAGTGAGATC 6420 6301 AAGCACATTT CACACGGCCC TCTTACCCGTT ACCGTTACTC TTACACCCTT TCAAGTGGATC 6420 6301 AAGCACATATT GCACTGGCAC TCTTACCGTT ACCGTTACTC TTACACCCTT TCAAGTGGATC 6420 6301 AAGCACACTATT GCACTGGCAC TCTTACCGTT ACCGTTACAC TCAAGTGGCAT CAAGTGCCAAC 65400 6421 CTAGGCTGAA GGCGCTGCTG AATGGCCAA AATTTACAGG CCAACGGAAT 65400 6421 CTAGGCTGAA GGCCGCATTACGCT GCACTCAAGGC TCCTTAAGCAA AATTACAGG CCCCCCACAC 65600 6541 TAAATTATTC AAAAAAGTTTA CGAGCCAAGGC TTCTTAAGCAA ATAGGCGAAAT GGCCCCCCACAC 65600 6541 TAAATTATTC CACACAGTT GCGCAGCCTG GAGGGCGGAAT GGCCCCCCACC 65600 6541 TAAATTATTC CACACAGTT GCGCAGCCTG GAGGGCGGAAT GCCCTGACC CAACGTAACC 6780 6661 GCACCAGAAG CGGTCCCGGA AAGCCTGCTG GAGGGCGGAAT TCTCTACAC CAACGTAAACA 6960 6721 GTCGTCCCCT CAAACAGTT CCACCGGTTTGTT CCCACCGGAGA ATTTTACACA 6960 6721 GTCGTCCCCT CAAACAGTT TAAATTATTA CCCACCGGAGA TTCTTTACCACTTTA TAGGTTACCCC 6840 6781 TATCCCATTA AGGTCAATCC GCCGTTTGTT CCCACCGGAGA ATTTTACACAC AATTTACACAC ATTTACACAC AATTTACACAC AATTTACACAC AATTTACACAC AATTTACACAC AATTTACACAC AAACACACAC	5881 ACAGGATTTT CGCCTĞCTĞĞ ĞĞCAAACCAĞ CGTĞĞACCĞU TÜĞAAAAĞAA AAACCACCĞT 6000 5941 CCAĞĞCĞĞTĞ AAĞĞĞCAATC AĞCTĞTTĞĞC CĞTĞTTĞĞC ĞĞTĞAAAAĞAA TAAACÇAĞCĞĞT 6000 6001 ĞĞCĞCCCAAT ACĞCAACCĞ AAAĞCĞĞÇĞ ÇĞÇĞTTĞĞCÇ ĞĞTTAĞAT TÜĞAĞĞTTAĞÇ 6120 6001 ĞĞCĞCCCAAT ACÇÇAACÇĞ AAAĞCĞĞĞÇĞ ÇĞÇĞTTĞĞC ĞĞÇÇAATTAAT TÜĞAĞAAACA 6180 6001 ACĞACAĞĞTT TCCCĞACTĞĞ AAAĞCĞĞĞC ÇĞÇĞTTĞĞCTÇ ĞĞCCĞTCĞTAT TTATĞTĞĞAA AĞA 6240 6121 TCACTCATTA ĞĞCACCCCAĞ ĞTTTACACT TTATĞCTTCC ĞĞCCĞTCĞTT TTACAACĞT 63200 6121 TCACTCATTA ÇĞACCÇCAĞÇ ÇTTACCCAAĞ CTTTĞTACAT ĞĞCÇĞÇĞTÇT TAACAAAAACA 63300 6241 GTĞACTĞĞĞA AAACCCTĞĞC ÇTTACCCAAĞA CTTTĞTACAT ÇTTACAĞĞ CAAĞTĞĞATC 6480 6301 AAĞCACTATT ĞCACTĞĞCAC CTĞTTAAÇĞĞC TĞCATTCAAT AĞTTTACĞĞ CAAĞTĞĞĞAT 65400 6421 CTAĞĞCTĞAA ÇĞÇĞTAÇĞCT AĞĞÇÇTTAĞĞÇA ATĞĞÇĞAĞAĞA ĞĞCCÇĞÇACÇ 66800 6421 CTAĞĞCTĞAAĞ ÇĞĞÇTACĞÇTT ĞĞĞCTATĞĞĞT TTCTTAAĞĞA ATĞĞÇĞAAĞA ĞĞÇÇÇĞÇACÇ 66600 6421 TAAATTATTC AAAAAAĞTTA CĞĞĞCTATĞĞĞT TTCTTAAĞÇA ATĞĞCĞAAĞA ĞĞÇÇÇĞÇACÇ 66600 6421 TAAATTATTC AAAAAAĞTTA CĞĞĞCCAĞÇÇTĞ AATĞĞĞĞAT CTCCTĞAĞĞÇ CÇĞATACÇĞÇ 6720 6561 GATCĞCCCTT CCCCAACÇĞĞA AAĞÇTĞĞĞTĞ AATĞĞCĞĞAT TTCCTĞAĞĞÇ CÇĞATACÇĞÇ 6720 6661 GATCĞCCCTT CCÇCAGÇÇĞA AAĞÇTĞĞÇTĞ AATĞĞÇĞAT CTCCTÇAÇĞĞ TTĞTTACTÇĞ 6840 6721 GTÇĞTCCCCT CAAACTĞĞĞA AAĞÇTĞĞÇTA CAĞĞAAĞĞAA ATTTAACÇĞ TTĞTTACTÇĞ 6840 6721 GTÇĞTTCCTTA TÜĞĞTTAAAA AATĞAĞÇTĞÇTA CAĞĞAAĞĞAA ATTTAACĞÇ AATTTTAÇÇĞ 6890 6721 GTÇĞTTCCTA TÜĞĞTTAAAA AATĞAĞÇTĞÇTA CAĞĞAAĞAAA ATTTAACÇĞĞ AATTTTAĞÇA 6900 6721 TCTĞATTATC AACÇĞĞĞĞTA CATATĞATTĞ ACĞĞTTĞAT AĞÇCTTĞTTA ÇĞATTACTACAÇ 7080 6721 TCTĞATTATÇ ACÇĞĞĞĞTA CATATĞATTĞA CAĞÇTĞĞAT AĞÇCTTĞĞTA ÇĞATTÇATÇA ÇAATTTAĞĞĞ 7200 7021 TCTĞATTATÇ AACÇĞĞÇĞ ATTAATTTAT CAĞÇĞĞÇTA AĞĞĞĞTTĞAT AĞÇTTĞĞTA ÇĞATTÇATÇA ÇAATTAATTĞĞĞ 7320 7021 TCTĞATTATÇ AACÇĞĞÇĞ ATTAATTTAT CAĞÇĞĞTT TTACÇĞĞT TĞAAATAATAĞ 7320 7021 GTĞATTĞĞC TĞTCCÇĞÇ CTTTCCÇĞĞÇ CTTTCTÇAÇÇ CTTTĞĞĞT TĞAAATTATTĞ ÇATTAATTĞĞ 7380 7141 AAAATATTAÇ CAĞAATATTA CAĞĞĞĞTTÇTA AAAATTTTA TCCCTĞĞĞT TĞAAATAATĞĞ 7320 7261 ÇCATTĞCTĞÇ AAAACTĞTA TĞAĞĞĞTTÇATA ATĞTTTTĞĞĞ TACÇACÇĞĞT TTAAATTTATA CAĞĞĞTTĞTAT AAAATTATTA CAĞĞĞĞTTĞTATA ATĞTTTĞĞT TAAAATTATTA CAĞĞĞĞTTĞTATA ATĞTTTĞĞĞT TAĞAATTATTA CAĞĞĞTTĞTATA	5881 ACAGGACTATT  6001 GGCGCCCAAT  6001 GGCGCCCCAAT  6001 GGCGCCCCCAAT  6001 GGCGCCCCCAAT  6001 GGCGCCCCAAT  6001 GGCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	5821 CTATCLEGGG 5881 ACAGGATTTT CGCCTGGGGGGCAAACCAG CGTGGACCGG TGGAAAAGAA AAACCACCCT 6000 5891 CCAGGCGGTG AAGGGCAATC AGCTGTTTGCC CGTCTCGCCTG GTGAAAAGAA TAAACCACCCTT 6000 5991 CCAGGCCCAAT ACGCAAACCGG CCTCTCCCCCG GTGAGCCGAACTAAAT GTGAGGTTAAGC 6120 6001 GGCGCCCAAT ACGCAACCGG CATTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA 6180 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA CGCAATTAAT TTATGTGGAA 6180 6061 ACGACAGGTT TCCCGACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTATT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCCAG GCTTTACACCT ACCTTTGTACACT GGCCGTCGCTT TTACAACAACGT 63200 6241 GTGACTGGGA AAACCCCTGGC GTTACCCCAAG CTTTGTACCAT GTAACCACTG TAAGTGGAACA 63200 6241 GTGACTGGGA AAACCCCTGGC GTTAACCGAT ACCGTTACACT GTTAACCCCTG TGACAAAAAGC 6480 6301 AAAGCACTATT GCACTGGCAC CTCTTAACCGT ATTGTGCCCA GGGGATTACAGG CAAAGTGGCTAC 6480 6301 AAGCACTATT GCACTGGCAC CTGCTAAAGGC TGCATTCAAT AGTTTACAGG CAAAGTGGCTAC 6480 6421 CTAGGCTGAA GGCGATGACC CTGCTAAAGGC TGCATTAACAA ATAGCGAAGA GGCCCGCACC 6600 6421 TCAAATTATTC AAAAAAGTTTA CGAGCAAAGGC TTCTTAAGCAA ATAGCGAAGA GGCCCGCACC 6600 6421 TAAATTATTC AAAAAAGTTTA CGAGCAAGGC TAAGTGGGAT CTCCTGAGGC CCGATACCGC 6600 6541 TAAATTATTC AAAAAAATCT GCGCAGCCGG AATGGGCGAT CCGACGGGGG TTGTTACCG 66800 6561 GATCGCCCTT CCCCACCCGGA AAGCTGGCTA CAGGAAGAGAA ATCCGACGGG TTGTTACCG 66800 6721 GTCGTCCCCT CAAACTGGCA AAGCTGGCTA CAGGAAGAGAA ATTTTATTTT	5821 CTATCTCGGG GGCAAACCAG CGTGGACCAG TGCAAAAAAAAAA
5821 CTATCTCĞĞĞ CTATTCTTT GALLARAÇ GGALLARCCA CITGCTĞÇARC TCTCTCAĞĞĞ 5940 5881 ACAGGATTTI CĞCCTĞĞĞ GĞCAAACCCĞ CĞTĞĞĞACCĞĞ TTĞCTĞÇARC TCTCTCAĞĞĞ 6060 5941 CCAĞĞĞĞĞ AAĞĞĞÇAATC AĞCTĞTĞÇÇ CĞÇĞTTĞÇCÇ ĞİĞAAAACĞA AAACCACCÇÜ 6000 6001 ĞĞÇĞÇCÇAAT ACĞÇAAACCĞ CCTCTCCCÇĞ CĞÇĞTTĞĞCA ÇĞÇAATTAAT ĞTĞAĞĞTTAĞÇ 6120 6001 ACĞACAĞĞT TCCCĞACTĞĞ AAAĞÇĞĞÇA GTĞAĞÇCCAA ÇĞÇAATTAAT ĞTĞAĞĞTTAĞÇA 6180 6121 TCACTCATTA ĞĞCACCCCAĞ ÇİTTACCACT TATĞĞTÇA ÇĞÇÇTATĞ TTĞTĞTĞĞAA 6300 6121 TCACTCATTA ĞĞCACCCCAĞ ÇİTTACCACT TATĞTĞTTÇA ÇÜNÇAACĞTÇ 6240 6181 TTĞTĞAĞÇĞĞ ATAACAATTT CACAÇĞTÇA ACTTĞĞÇACT ĞĞÇĞĞAAAATA AAĞTĞAAACA 6300 6241 ĞTĞACTĞĞĞA AAACCCTĞĞÇ ĞTTACCCAĞĞ CTTTĞTACÇT TTTTACCCTĞ TĞACAAAAAĞÇ 6360 6241 GAĞCACTATT ĞCACTĞĞÇA ÇİTTACÇĞTT ACÇĞTTACTÇA ÇÜNÇATTACÇÜNÇA ÇAĞĞĞAAAATA AAĞTĞAACA 6480 6481 CĞÇÇÇAĞĞA ÇACÇĞĞTÇÇĞ AĞTÇAĞĞÇÇT TAĞÇĞATTACA AĞTTĞAĞÇ CAAĞTĞĞÇTÇ 6500 6541 TAAATTATTÇ AAAAAĞTTTA ÇĞĞÇÇAĞÇĞĞ AĞTÇĞÇÇĞ AATĞĞÇÇÇ ÇÖNÇAÇÇĞ 6660 6541 TAAAATTATÇ ÇÜNÇAĞÇTI ÇĞĞÇÇAĞÇĞĞ AĞTÇĞÇĞÇĞ AATĞÇĞÇÇÇĞÇA ÇÜNÇAĞÇĞĞ AĞĞÇÇÇĞÇAÇÇ 6660 6581 GATÇĞÇÇÇT CAAACTĞĞÇA ÇAĞÇÇĞÇA AĞÇÇĞĞĞA ATÇÇĞĞÇĞÇ ÇÖNÇAÇÇĞ 6680 6781 TATÇÇÇÇT CAAACTĞĞÇA ÇAĞÇÇĞÇA AĞĞÇĞÇĞĞA ATÇÇĞĞĞĞ TTÇTTÇÇĞ 6840 6781 TATÇÇÇÇT CAAACTĞĞÇA ÇAĞTÇĞÇÇĞ ATĞÇÇÇĞÇ AÇÇÇĞĞA ÇÜNÇAÇÇĞ ATTTACÇÇĞ 6860 6781 TATÇÇÇÇT ÇAAACTĞĞÇA ÇAĞÇĞĞÇA ÇAĞÇĞĞĞÇĞ TTÇTTÇÇÇĞ 6890 6781 TATÇÇÇÇT ÇAAACTĞĞÇA ÇAĞÇĞĞÇA ÇAĞÇĞĞAĞ ÇÜNÇAĞÇĞA ÇÖNÇAÇĞĞ AĞÇÇĞĞAĞÇ ÇÖNÇAÇÇĞ AĞÇÇĞĞÇA ÇÖNÇAÇÇĞ ÇÖNÇAÇÇÇ ÇÖNÇAÇÇĞ ÇÖNÇAÇÇĞ ÇÖNÇAÇÇĞ ÇÖNÇAÇÇÇ ÇÖNÇAÇÇ ÇÖNÇAÇÇ ÇÖNÇAÇÇ ÇÖNÇAÇÇĞ ÇÖNÇAÇÇ ÇÖNÇÇ ÇÖNÇAÇÇ ÇÖNÇAÇÇ ÇÖNÇAÇÇ ÇÖNÇÇ ÇÖN	5821 CTATCTCĞĞĞ CTATTCTTT GALILALARD GÖRÜLLER GERMEN GÖRÜLLER GÖRÜLER	5821 CTATCTCĞĞĞ CTATTCTTT GALLARAÇ GGALLARCCA CITGCTĞÇARC TCTCTCAĞĞĞ 5940 5881 ACAGGATTTI CĞCCTGĞĞ GĞCAAACCCĞ CĞTĞĞĞACCĞĞ TTĞCTĞÇARC TCTCTCAĞĞĞ 6060 5941 CCAĞĞĞĞĞ AAĞĞĞÇAATC AĞCTĞTĞÇÇ CĞÇĞTTĞÇCÇ ĞİĞAAAACĞA AAACCACCÇÜ 6060 6001 ĞĞÇĞÇCÇAAT ACĞÇAAACCĞ CCTCTCCCÇĞ CĞÇĞTTĞĞCA ÇĞÇAATTAAT ĞTĞAĞĞTTAĞÇ 6120 601 ACĞACAĞĞT TCCCĞACTĞĞ AAAĞÇĞĞÇA GTĞAĞÇCCAA ÇĞÇAATTAAT ĞTĞAĞĞTTAĞÇA 6180 6121 TCACTCATTA ĞĞCACCCCAĞ ÇİTTACCACT TATĞĞTÇA ÇĞÇÇTÇĞTATĞ TTĞTĞTĞĞAA 6300 6121 TCACTCATTA GĞCACCCCAĞ ÇİTTACCACT TATĞTĞTTÇA ÇÜNÇAACĞTÇ 6240 6181 TTĞTĞAĞÇĞĞA ATAACAATTT CACAÇĞTÇA ACTTĞĞÇACT ĞĞÇĞĞAAAATA AAĞTĞAAACA 6300 6241 ĞTĞACTĞĞĞA ATAACAATTT CACAÇĞTÇA ÇÜNTTACCCTĞ TÜNÇACAAÇĞTÇA ÇÖNÇÜ ÇÖNÜN AĞĞÇACTATT ĞCACTĞĞÇA ÇİTTACCCATĞ TTTACCCTTĞ TTTACCCCTĞ TĞACAAAAAĞÇ 6360 6241 ĞTĞACTĞĞĞA AAACCCTĞĞÇ ÇÖTTACCCĞAĞ CTÇĞTTACTÇA ÇÜNÇA ÇAĞĞĞAATA AĞÜNÜN ÇÜNÇA ÇÜNÜN ÇÜNÜ	5821 CTATCTCGGG CTATTCTTT GAITA AND GOATACCGC TIGCTGCAAC TCTCTCAGGG 5940 5881 ACAGGATTIT CGCCTGCTGG GGCAAACCCAC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAATC ACCTGTTGCC CGCGTTGGCTG GTGAAAAGAA AAACCACCCT 6000 6001 GGCGCCCCAAT ACGCAAAACCG CCTCTCCCCG CGCGTTGGCC GATTAAT GTGAGTTAGC 6120 6001 ACGACAGGTT TCCCGACCCAG GCTTACCCCAG GTGAAGCCTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCAG GCTTACCCCAG GCCAGTTACT TTACCAACGTC 6240 6181 TTGTGAGCGG AAAACAATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TTACCAACGTC 63200 6241 GTGACTGGGA AAACCATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TTACCAACGTC 63200 6301 AAGCACTATT GCACTGGCC ACTTTACCCCTA GGGGAAAAAAA AAATGAGGATC 6420 6301 CGCCCAGGGC CAGCTGGCC AGCTCAGGCC TCTTACCGGTC ACTTGTACCT TTACCCCTG TGAACAAAAACA 6480 6361 CGCCCAGGAC CAGCTGGCC AGCTCAGGCC TCTTACCGGTC ACTTGTTACCCCTG TGAACAAAAAACA 6480 6361 CGCCCAGGAC CAGCTGCCCG AGCTCAGGCC TATTGTGCCCA GGGGAATTGTA CCAAACTGGATC 6480 6481 TGAGTTACATT GCCCACACAGTT GCGCAAGGC TTCTTAAAAAAAAAA	5821 CTATCTCĞĞĞ CTATTCTTTT GALTIALAND GÖRÜLÜĞÜNÜN TÜĞÜLĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜĞÜNÜN TÜRÜLÜNÜN TÜRÜNÜN TÜRÜLÜNÜN TÜRÜLÜNÜN TÜRÜLÜNÜN TÜRÜLÜNÜN TÜRÜNÜN TÜRÜN TÜRÜLÜNÜN TÜRÜNÜN TÜRÜNÜN TÜRÜNÜN TÜRÜNÜN TÜRÜN TÜRÜN TÜRÜLÜN TÜRÜN	5821 CTATCTCGGG CTATTCTTTT GATITALAB GGATACCCCC TIGCTGCAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGTGCCG TIGCTGCAAA AAACCACCCT 6000 5941 CCAGGCGGTA AAGGGCAAACCA CGCCTTCCCCG CGCGTTGGCC GATTCATTAA TGCAGGTTAGCC 6050 6001 GGCGCCCAAT ACGCCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TTGTGTGGAA 6180 6001 GGCGCCCAAT CCCCAACTGG AAAGCCGGGCA GTGAGCGCAA CCCCTGTTT TTACAACGTC 6240 6001 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6011 TTGTGAGCGGA AAACCCTGGC ACACGCGCTC ACTTGTACACT GGAGAAAATA AAGTGAAAACA 63300 6181 TTGTGACTGGGA AAACCCTGGC TCTTACCCCAAC CTTTGTACCAT GGAGAAAATA AAGTGAAAACA 63300 6241 GTGACTGGGA AAACCCTGGC TCTTACCCGTT ACCGTTACTG TTACCACCTG TCACAACGGC 63300 63301 AAGCACTATT CAGACTGCCAC AGTCAGGGCT ACCGTTACTG TTACAACCCTG CAAGTGCAAC 6480 63301 AAGCACTATT GGCTACGCTT GGGCTATAGGT AGTTTATA GTTTGGTGCTA CCAATAGGGATC 6480 63301 AAGCACTATT GAGAAAAGTTTA CGGAGCAAGGC TGCATTCAAT AGTTTACAAGG CAAGTGCTAC 65400 63301 AAGCACTATT GCCCAAGGCT AGTCAGGGC TGCATTCAAT AGTTTACAAGA GGCCCCGCCCC	5821 CTATCTCGGG CTATTCTTTT GATITALAG GGATACCACC TTGCTGCAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGCTGGC GTGGAAAACAA TAACCACCCT 6000 5881 ACAGGCTGT AAGGGCAATC AGCTGTTGCC CGCGTTGGCC GATTCATTAAT TGCAGCTGGC 6050 5941 CCAGCCGAAT ACGCCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGCAGCTTGGAA 6120 6001 GGCGCCCAAT ACGCCAACCG AAAGCCAGCCT TTATGGCTTCC CGCCGTATG TTGTGTGGAA 6180 6061 GCGCCCAAT TCCCGACCGAA CGCAAACCAG CGCAAATTAAT TTGTGTGGAA 6180 6061 TCACTCATTA GGCACCCCAG CCTTTCCCCG CGCGTTTCTC GGCCGTCGTT TTACAACCAT 62400 6121 TCACTCATTA GGCACCCCAG CCTTTACCGGCT TTATTGTTCCCCT GGCCGTCGTT TTACAACAACA 63300 6121 TCACTCATTA GGCACCCCAG CCTTTACCGGTT ACTTTGCCCCA GGCACAAAAAAACA 63300 6241 GTGACTGGGA AAACCCTGGCC CTTTACCGGTT ACTTTGCCCCA GGGGATTGTA CTAGTGGGAAAAAAACA 63400 6361 CGCCCAGGTC CAACCTGGCCAC AGCTCAAGGGCT ATTTTCAAT AGTTTACAGG CAACGGGAAT 65400 6421 CTAGGCTGAA GGCGTAGACCT GGGCTAATGGT AGCACTAAACAAAACA	5821 CTATCTCGGG CTATTCTTTT GATITATAG GGATACCCC TIGCTGCAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGCTGGC GTGAAAAGAA AAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAATC AGCCTGTTGCC CGCTTGGCC GATTCATTAA TGCAGTTAGC 6050 6001 GCGCCCAAT ACGCCAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGTTAGC 6120 6001 GCGCCCAAT ACGCCAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TTGTGTGGAA 6180 6001 GCGCCCAAT ACGCCACACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACCGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACAGT 63300 6241 GTGACTGGGA AAACCCTGGC GTCACACGCGCT ACTTGTACACT GGAGAAAATA AAGTGAAAACA 63300 6241 GTGACTGGGA AAACCCTGGC GTCACACGCCT ATTGTGCCCA GGGGAAAATA AAGTGAAAACA 63300 6301 AAGCACTATT GCACTGGCCA AGTCAGGGCT ACCGTTACTG TTACACCCTG CAAGTGGAAACA 65300 6301 AAGCACTATT CAGACAGGCT GAGTCAGGGC TGCATTCAAT AGTTTACAGG CAAGTGGCTAC 6480 6301 AAGCACTATT CAGACAGGCT GAGTCAGGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 65400 6301 AAGCACCAGAT GCCCTTCCCCAACGGCT AGTCAGGGCAAT TACACAGGC CTGGTTCCCG 66600 6481 TGAGTACATT CAGAACAGTT GCGCAGCCTG AATGGCGAAT GGCGCTTTTGC CTGGTTCCCG 66600 6541 TAAATTATTC AAAAACAGTT GCGCAGCCTG AATGGCGGAAT GCGCTTTTGC CTGGTTCCCG 66600 6541 TAAATTATTC CAGAACAGTT GCGCAGCCTG GAGTGCGGCC CCATCTACAC CAGCGTAACCG 66600 6541 TAAATTATTA CAGATTAAAA AAGCTGGCTA CAGGAAAACAAACA TTTCCTGAGA TTTCTCAG 6900 6661 GCACCAGAAG CGGTGCCGGA GATGCACGGT TACCGAGGAAA ATCCGACGGAAT TATTTTTTTTAACCAA 7100 6781 TATCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGGAGA ATCCGACGGAAT TATTTTTTTTAACAGAAAA AATTTTAACCAATT TAAAATATTTAA CTTCCTGTTT TTGGGGGCTTT TCGAGTAACAAAAAAAAAA
5761 CGTTGGGG CTATTCTTT GATTTATAÄÄ GGATTTTGCC GATTLCGGAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAGGG 5940 5881 ACAGGCGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCC GGCGTTTGCC GGCTCGTATG TTGTGTGGAAA 6180 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCCAATTAAT GTGAGCTTGC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGGTTCC GGCTCGTATG TTTACAACCT 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTTGCACT GGCCGTCGTT TTACAAACAA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GGAGAAAAAA AAACCCTGGCGC GTTACCCAAG CTTTGTACCACT GGAGAAATAA AAAGTGAAAACA 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCGTT ATTGTGCCCA GGGGATTTAA CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCAC CTCTTACCGTT ATTGTGCCCA GGGGATTTAA CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCAC CTCTTACCGTT ATTGTGCCCA GGGGATTTAA CTAGTGGATC 6420 6421 CTAGGCTGAA GGCGATGACC CTCTCTACAGGT TGCATTCAAT AGTTTACAGC CAAAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTCTCTAAGGC TGCATTCAAT AGTTTACAGC CAAAGGGAT 6540 6421 TAAATTATTC AAAAAAATTTA CGAGCAAGGC TTCTTAACCAT ATTGCGCAAC ACCCCCCCCCC	5761 CGTTGGGG CTATTCTTT GATTTATAÄĞ ĞĞATTTTĞCC GATTLCĞAAC TCTCTĞĞĞ 5940 5881 ACAĞĞATTTT CĞCTĞCTĞĞ ĞĞCAAACCAĞ CĞTĞĞACCĞC TTĞCTĞAAC TCTCTĞĞĞĞ 5940 5881 ACAĞĞATTTT CĞCTĞCTĞĞ ĞĞCAAACCAĞ CĞTĞĞACCĞC TTĞCTĞAAC TCTCTĞĞĞĞ 6000 6001 ĞĞCĞCCCAAT ACĞÇAAACCĞ CCTCTCCCCĞ ÇĞÇĞTTĞĞCC ĞATTCATTAA TĞCAĞCTĞĞA 6120 6001 ĞĞCĞCCCAAT ACĞAAACCĞ CCTCTCCCCĞ ÇĞÇĞTTĞĞCC ĞATTCATTAA TĞCAĞCTĞĞA 6120 6001 ACĞACAĞĞTT TCCCĞACTĞĞ AAAĞÇĞĞÇĞA ĞTĞAĞÇĞAA CÇĞCAATTAAT GTĞAĞTTAĞC 6120 6121 TCACTCATTA ĞĞCACCCCAĞ ĞCTTTACAĞT TTATĞĞCTTC ĞĞCCĞĞTCĞTATĞ TTACAACĞTC 6240 6121 TCACTCATTA ÇĞCACCCCAĞ ĞCTTACCCAT CTTTĞĞCACT ĞĞCCĞTTÇTT TACAACATC 6240 6181 TTĞTĞAĞÇĞĞ ATAACAATTT CACACĞĞĞTC ACTTĞĞCACT ĞĞGĞAAATAA AAĞTĞAAACA 6300 6241 GTĞACTĞĞĞA AAACCCTĞĞC ÇTTACCCĞTT ACÇĞTTACCAT GĞAĞAAATAA AAĞTĞAĞAACA 6300 6241 GTĞACTĞĞĞA AAACCCTĞĞCA ÇTTACCĞTT ACÇĞTTACCA TTAĞĞĞATTA CTAĞTĞĞATC 6420 6301 AAĞCACTATT ĞCACTĞĞCAC CTCTTACCĞTT ATTĞTĞCCCA ĞĞĞĞATTTAA CTAĞTĞĞATC 6420 6301 TĞACTĞĞA AAACCCTĞĞCA ÇTTACCĞTT ATTĞTĞÇCCA ĞĞĞĞATTTACAĞÇ CAAĞTĞĞATC 6420 6301 TĞACTĞĞAT ÇÇÇÇĞA AĞACCCTĞĞA ÇTTAĞĞTTATA ÇTTĞĞĞAĞAĞA ÇÇÇÇÇĞAÇÇÇĞA	5761 CGTTGGGG CTATTCTTT GATTTATAÄÄ GGATTTTGCC GATTLCGGAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAGGG 5940 5881 ACAGGCGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCC GGCGTTTGCC GGCTCGTATG TTGTGTGGAAA 6180 6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCCAATTAAT GTGAGCTTGC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGGTTCC GGCTCGTATG TTTACAACCT 6240 6181 TTGTGAGCGG ATAACAATTT CACACGCGTC ACTTTGCACT GGCCGTCGTT TTACAAACAA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAT GGAGAAAAAA AAACCCTGGCGC GTTACCCAAG CTTTGTACCACT GGAGAAATAA AAAGTGAAAACA 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCGTT ATTGTGCCCA GGGGATTTAA CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCAC CTCTTACCGTT ATTGTGCCCA GGGGATTTAA CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCAC CTCTTACCGTT ATTGTGCCCA GGGGATTTAA CTAGTGGATC 6420 6421 CTAGGCTGAA GGCGATGACC CTCTCTACAGGT TGCATTCAAT AGTTTACAGC CAAAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTCTCTAAGGC TGCATTCAAT AGTTTACAGC CAAAGGGAT 6540 6421 TAAATTATTC AAAAAAATTTA CGAGCAAGGC TTCTTAACCAT ATTGCGCAAC ACCCCCCCCCC	5761 CGTTGGGG CTATTCTTT GATTTATAAG GGATTTTGCC GATTLCGAAA TCTTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACGC TTGCTGCAAA TCTTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACGC TTGCTGCAGA AAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCCTTGGCC GTGAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCGAACGC CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6120 6061 ACGACAGGTT TCCCCGACTGG AAAGCGGGCA GTGAGCCGAA CGCAAATAAT TTTGTGTGGAGA 6180 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCTCGTATG TTGTGTGGAA C6360 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TATGTGCACT GGAGAAAAAA AAACCATGC 6240 6241 GTGACTGGGA AAACCATTT CACACGGGCC ACTTGGCACT GGAGAAAAAAA AAGCAAAAAAC 6360 6241 GTGACTGGGA AAACCACTGGC GTTACCCGTT ACCGTTACTG TTTACCCCTG TGAACAAAAAC 6360 6361 AAGCACTATT GGCACCGGACC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGAACAAAAAC 6360 6361 AAGCACTATT GGCTACGCTT GGGCTAAGGC TGCATTCAAA AGTTTACAGG CAAAAAGC 6360 6361 AAGCACTGTAT GGCTAAGGC TTCTTAAAGCA ATAGCGAAAGA GGCCCCCACC 6660 6421 CTAGGCTGAA GGCCGTCCGGA CAGCTTG GAGCAAAAAAA AATTACAGA GGCCCCCAACC 6660 6541 TAAATTATTC AAAAAAGTTTA CGGGCAACCTG AATGGCCAAT GGCCCCTTTGC CCGGTTTCCG 6660 6541 TAAATTATTC AAAAAAGTTTA CGGGCAGCCTG AATGGCGAAT GTCCGACGGG TTGTTACAC CAACGATAACC 6720 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGGGGGAT GTCTTACAC CAACGTTAACC 6840 6721 GTCGTCCCCT CAAACCGGGTA CACGCTTTGTT CCCACCGGAAA ATTTTACACA 6960 6721 GTCGTCCCTT CAAACCGGGAAACCGGTT CAAGCAGAAAAAAA AATTAACGCG AATTTTAAACAAT TATTTTAACAAT TTTACCAATTT AAACTAAAAA AAATGAGCTGAA TTTTACAAAAAAAAAA	5761 CGTTGGAGIL CACGTTOTTT GATTTATAAG GGATTTTGCC GAITICGGAA CLACTAGGG 5940 5881 ACAGGATTTT GCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TACACACCCT 6000 5881 ACAGGATTTT GCCTGCTGG GGCAAACCAG CGTTGGCC GTGAAAAAAAAAA	5761 CGTTGGAGIL CACGTCTTTT GATTTATAAG GGATTTTGCC GATTLCGAAA CLACCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TACCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGAAAAAAAAAA	5761 CGTTGGAGIL CACGILLITIT GATTTATAAG GGATTTTGCC GATTLCGGAA CCACCCT 6000 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTLCGGAAAACAA AAACCACCCT 6000 5841 CCAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGGAAAAGAA AAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTCCCCG CGCGTTGGCC GATTCATTAAT TGCAGGTTAGC 6120 6001 GGCGCCCAAT ACGCAAACCG CACCCGCGCGCGCGCGCAA CGCAATTAAT TTGTGTGGAA 6180 6001 ACGACAGGTT TCCCGACCGC CACCCTCCCCCG CGCGTTGGCC GGCCTCGTATG TTGTGTGGAAACA 6300 6001 ACGACAGGTT TCCCGACCGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCGTCCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCCAG GCTTTACACCT TTATGCACT GGCCGTCCGTT TTACAACAGT 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACACT GGCCGTCGTT TTACAACAAACC 6300 6241 TTGTGAGCGGA AAACCCTGGCAC CTTTACCGAT ACCGTTACTG TTTACCCCTG TGACAAAAAGC 6340 6301 AAGCACTATT GCACTGGCAC CTTTACCGAT ACCGTTACTG TTTACAGG CCAAATGGGAT 6540 6301 AAGCACTATT GCACTGGCAC CTTTACAGGCCT ATTGTGCCCA GGGGATTACAGG CCAAATGGGAT 6540 6301 CGCCCAGGTC CAGCTGCTCG GGGCTAAGGGC TGCATTACAA AGTTTACAGG CCAAATGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAAGGC TGCATTACAA ATTGTGTGCCC CAAACTGGACC 6600 6421 CTAGGCTGAA GGCGATGACC CTGCTAAAGGC TACCGAAGAA ATTGCGGCAC CGACC 6600 6421 TAAAATATTATC AAAAAAGTTTA CGAGCCAGCCTG AATGGGGAT TTCCTGAGAAC CCAACTGAACC 6600 6541 TAAAATATTAT CCGACCAGCCTG AATGGCGAT TCCCTCAAACC CCACCGTAACCG 6600 6601 GATCGCCCTT CCCAAACCTGCA GATGCACCGGT TACCGACGAGA ATCCCGACGGG TTGTTACCAG 6600 6601 GATCGCCCTT CCCAAACTGCA AAGCTGGCTA ATGGCGAAAAAAAA ATTTTTTTTTT	5761 CGTTGGAGIL CACGITITITI GATTTATAAG GGATTTTGCC GATTICGGAA CCACCACAGG 5940 5821 CTATCTCGGC CTATTCTTTT GATTTATAAG GGATTTTGCC TTGCTGCAAC CCCCACAGGG 5940 5821 CTATCTCGGC CTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC AAAACCACCCT 6000 5841 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTGTTGGCC GATTCATTAA TGCAGGTTAGC 6120 6001 GGCGCCCAAT ACGCAAACCAG CACTCTCCCCCG CGCGTTTGGCC GATTCATTAA TTGGAGTTAGC 6240 6001 GGCGCCCAAT ACGCAACCAG CACTCTCCCCCG CGCGTTGGCC GGCAATTAAT TTGGTGGAAA 6880 6001 ACGACAGGTT TCCCGACCTAG GCTTTAACACT TTATGCTTCC GGCCGCTCGTT TTACAACGTC 6240 6121 TCACTCATTA GCCACCCAG GCTTTACCCATA ACCTTTGTACCAT GGAGAAAATA AAGTGAAACAC 6360 6241 GTGACTGGGA AAACCCTGGC TGTTAACCCAAG CTTTTGTACCAT GGAGAAAAATA AAGTGAAACAC 6360 6301 AAGCACTATT GCACTGGCAC CTGCTAAGGC TTGTTACCAG TTTACACGC CAAACAAAACC 6420 6301 AAGCACTATT GCACTGGCAC CTGCTAAGGCC TACTTGTGCCCA GGGGATTGTA CTAAGTGCTAC 6480 6301 AAGCACTATT GCACTGGCAC CTGCTAAGGC TACTTTACAGT TTTACAGGC CAAAGTGCTAC 6480 6421 CTAGGTACATT GGCTACGCTT GGGCTATAGGC TACTTAAGCAA ATAGCGAAGA GGCCCGCACC 66600 6421 CTAGGTACATT GGCTACGCTT GGGCTATAGGT AATTGTGCCCA ATAGCGAAGAA GGCCCGCACC 66600 6421 TAAAATTATTC AAAAAGTTTA CGAGCCAGCTT TACAGACGCAAAT TTCCTGGATTACCC CGAACCGCAAC 66600 6541 TAAAATTATTC CAAAACAGTT CCAAGCGCAAGCT TACCGACCGAAA GGCCCCTTTACCC 66800 6661 GCACCAGAAG CGGGCGAAGCCTT CCCAAGCGTAACC CAACGTAAACC 6780 6661 GCACCAGAAG CGGGAAGGTT CAAGAGCTGGCT TACAGACGCG AATTTAACCA 69600 6781 TATCCCCATTA CGGTCAATCC GCCGTTTGTT CCCACGAGGAAA ATTTAACCA ATTTAACCA AATTTAACCATT TAAAAAATTTAACAATT TAAAAAATTTACAATT TTAAAAAATTTACAATT TTTAACAAAA AATGAGCTGAATAT CCCATTACTCAA 7140 6781 TATCCCCATTA CGGTCAAATC AATTAACAAA ATTTAACCAAT TTTAACCAAT CCATTACTACA 7140 7081 ATTCCCTACTA TTTAACAAT TTAAATATTAA CAATGCTACA CATT
5761 CGTTGGGG CTATTCTTT AATAGTGGAC ICTIGITCC GATTTCGGAA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTT AATAGTGGAC ICTIGITCC GATTTCGGAA CCACCATCAA 5880 5821 CTATCTCGGGG CTATTCTTTT GATTTATAAG GGATTTTCCG GATTTCGGAAC TCTCTCAGGG 5940 5821 CCAGGCGGTG AAGGGCAACCA GCGTTGGCC CGTCTGGCTG GTGGAAAGAAA AAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAACCA CGCGTTGGCC CGTTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACGCAACTGG AAAGCGGGCA GCGAATTAAT TTGTGTGGAG 6120 6061 ACGACCAGTT TCCCGACTGG AAAGCGGGCA GCGAATTAAT TTGTGTGGAAC 6120 6061 ACGACCAGTT ACGCCCCAG GATTCACCCAG GGCCGTTGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCCGTGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT GGCAGTATGTA TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GTTACCCAAG CTCTTACTG GGAAAAAAA AAAGTAACA 63300 6241 GTGACTGGCAA CTCTTACCCAAG CTCTTACTG TTTACACCCTG TGACAAAAAGC 6360 6241 GTGACTGGCAA CTCTTACCCAAG CTCTTACTG TTTACACCCTG TGACAAAAAGC 6360 6301 AAGCACTATT GCACTGGCAA CTCTTACACCATTCAAT AGTTTGACACTAC 6480 6301 AAGCACTGTT GCACTGGCAA CTCTTACACCATTCAAT AGTTTGACACAGGAAC 6420 6421 CTAGGCTGAA GGCCAACGCTT GGGCTATGGTA ACTATTATA GTTGGTGCTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCCAACGCTT GGGCCATCCAAT AGTTTACAC GGCCACCCGCACC 6600 6421 TAAATTATTC CAAAAAGTTTA CGGCCACCCTG AATGGCGAAT TATCTTACACCGCACC 6600 6541 TAAAATTATTC ACAACAGTT GGGCCACCCTG AATGGCGAAT TTCCTGAGGC CGAACCGCACC 6600 6541 TAAAATTATTC ACAACAGTT GGGCCACCCTG AATGGCGAAT TTCCTGAGGC CGATCACGATAACC 6720 6661 GCCCCACCAGAAG CGGTGCCACC GATCCACCGAAC AAGCTAACCGAACGAACGAACGAACGAACGAACGAACGAA	5761 CGTTGGGG CTATTCTTTT AATAGTGGAL ILIIGITCC GATTTTGGAA CACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGGAA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGAAC CTCTCTCAGGG 5940 5821 CCAGGCGGTG AAAGGCAAAC AGCCGCTTGCCC CGCGTTGGCC GTGGAAAAAAAAAA	5761 CGTTGGGG CTATTCTTT AATAGTGGAC ICTIGITCC GATTTCGGAA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTT AATAGTGGAC ICTIGITCC GATTTCGGAA CCACCATCAA 5880 5821 CTATCTCGGGG CTATTCTTTT GATTTATAAG GGATTTTCCG GATTTCGGAAC TCTCTCAGGG 5940 5821 CCAGGCGGTG AAGGGCAACCA GCGTTGGCC CGTCTGGCTG GTGGAAAGAAA AAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAACCA CGCGTTGGCC CGTTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACGCAACTGG AAAGCGGGCA GCGAATTAAT TTGTGTGGAG 6120 6061 ACGACCAGTT TCCCGACTGG AAAGCGGGCA GCGAATTAAT TTGTGTGGAAC 6120 6061 ACGACCAGTT ACGCCCCAG GATTCACCCAG GGCCGTTGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCCGTGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT GGCAGTATGTA TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GTTACCCAAG CTCTTACTG GGAAAAAAA AAAGTAACA 63300 6241 GTGACTGGCAA CTCTTACCCAAG CTCTTACTG TTTACACCCTG TGACAAAAAGC 6360 6241 GTGACTGGCAA CTCTTACCCAAG CTCTTACTG TTTACACCCTG TGACAAAAAGC 6360 6301 AAGCACTATT GCACTGGCAA CTCTTACACCATTCAAT AGTTTGACACTAC 6480 6301 AAGCACTGTT GCACTGGCAA CTCTTACACCATTCAAT AGTTTGACACAGGAAC 6420 6421 CTAGGCTGAA GGCCAACGCTT GGGCTATGGTA ACTATTATA GTTGGTGCTA CCATAGGGAT 6540 6421 CTAGGCTGAA GGCCAACGCTT GGGCCATCCAAT AGTTTACAC GGCCACCCGCACC 6600 6421 TAAATTATTC CAAAAAGTTTA CGGCCACCCTG AATGGCGAAT TATCTTACACCGCACC 6600 6541 TAAAATTATTC ACAACAGTT GGGCCACCCTG AATGGCGAAT TTCCTGAGGC CGAACCGCACC 6600 6541 TAAAATTATTC ACAACAGTT GGGCCACCCTG AATGGCGAAT TTCCTGAGGC CGATCACGATAACC 6720 6661 GCCCCACCAGAAG CGGTGCCACC GATCCACCGAAC AAGCTAACCGAACGAACGAACGAACGAACGAACGAACGAA	5761 CGTTGGGGCTTTTT AATAGTGGAC ICTIGITCC GATTTCGGAA CACCATCAA 588U 5821 CTATCTTCGGG CTATTCTTTT AATAGTGGAC ICTIGITCC GATTTCGGAA CCACCATCAA 588U 5821 CTATCTTCGGG CTATTCTTTT AATAGTGGACCGC TTGCTGCAAC TCTCTCAGGG 594U 5821 CTATCTTCGGG CTATTCTTTT AATAGTGGACCGC TTGCTGCAAC TCTCTCAGGG 594U 5821 CCAGGCCGGTG CAGGCCAACCA GGCGAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAGGG 6000 5941 CCAGGCCGGTG AAGGCGAACCA GGCGATTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GCGCCCCAAT ACGCAAACCG CCTCCCCCG CGCGTTGGCC GATTCATTAA TGTGAGTTAGCA 6180 6121 TCACTCATTA GGCACCCCCAG GCTTTACACT TTATGCTTCC GGCTCCTATG TTGTGTGGAA 6180 6121 TCACTCATTA GGCACCCCCAG GCTTTACACT TTATGCTTCC GGCTCCTATG TTACAACACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAACT GGAGAAAATA AAGTGAAACA 6300 6241 GTGACTAGGGA AAACCCTGGC GTTACCCAAG CTTTGTACAAT GGAGAAAATA AAGTGAAACA 6300 6301 AAGCACTATT GCACTGGCCC TCTTACCGTT ACCGTTACTG TTACCCCCTG TCACAAAAACC 6300 6301 AAGCACTATT CCAGCTGCTCC AGTCAAGGCCT ATTGTGCCCA GGGGATTGTA CTAGTGGAT 6420 6301 AAGCACTATT CCAGCTGCTCC AGTCAAGGCCT TATTGTGCCCA GGGGATTGTA CTAGTGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTTAAGGC TGCATTCAAT AGTTTACAGC CAAACGGAT 6540 6421 TGAGTACCATT GGCTACGCTT GGGCTAAGGC TTCTTAACAC ATAGCGAACA GCCGCTTTCCC 6660 6541 TAAAATATTC AAAAAATTTA CGAGCAAAGGC TTCTTAACAC AACGCGAAC CGGATTCCCC 6660 6541 TAAAATATTAC AAAAACTTAT GCGCCAAGCCTG AATGGCGAAT TTCTTAACAC CAACCTAACC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GAGTGCGACC GACCGCAACC CAACCTAACC 6780 6661 GCACCAGAAG CGGTCCAGAC CGCGTTTGTT CCCAGCAGCC CAACCTATACC CAACCTAACC 6780 6661 GCACCAGAAG CGGCTCAACCC CGCGTTTGTT CCCAGCAGCC CAACCTATACCAC CAACCTAACC 6780 6661 GCACCAGAAG CGGCCCCCCCCCCCCCCCCCCCCCCCC	5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC ILLIGITICCC GATTTCGGAA CCACCATCAA 588U 5821 CTATCTCGGG CTATTCTTTT GATTTATAAAG GGATTTTCGCAAC TCTCTCAGGG 5940 5821 CTATCTCGGG CTATTCTTTT GATTTATAAAG GGATTTTCCCCGC GTTGCTGCAAC TCTCTCAGGG 5940 5821 CCAGGCGGTG AAGGGCAACCACCCT GGCCGCTTGGCCG GTGAAAAGAA AAACCCACCCT 6000 5941 CCAGGCGGTG AAGGGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGCC 6060 6001 GGCGCCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGTGAAGTTAGC 6120 6001 ACGACAGGTT TCCCGAACTGG AAAGCGGGCA TTATGCTTCCC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCCAAC TTATGCTTCC GGCCGCTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCCCAAC CTTTGGCACT GGCCGTCGTT TTACAACGTC 63200 6241 GTGACTGGGA AAACCATTT CACACGCGTC ACTTGGCACT GTTACCCCTG TGAACAAAAACA 63300 6241 GTGACTAGTT GCACTGGCC GTTACCCCAAG CTTTGTACAT GGCACTATGA CAAGTGGATC 6420 6301 AAGCACTATT GCACTGGCC GTTACCCCAAG CTTTGTACAT GGGGAAAAAAA AAACCCTGGA TCTTACCCGTT ACCCGTTACCTA GGGGGATTAGA CAAGTGGATC 6420 6301 AAGCACTATT GCACTGGCC GTTACCCCAAGGCC TATTGTGCCCA GGGGATTGAC CAAGTGGATC 6420 6301 AAGCACTATT GCACCAGGCC TATGGT AGTTACAAT AGTTGGCTAA CCAAGTGGATC 6420 6301 CTAGGCCTGAA GGCGATGACC CTGCTAAGGC TATGGTTACAAT AGTTGGCTAA CCAAGTGGATC 66400 6421 CTAGGCCTGAA GGCGATGACC CTGCTAAGGC TATGGTTACAA ATAGCGAAGAA GGCCCCAACCGACC 66600 6541 TAAATTATTC CAAACTGGCA GATGCACGGT TACCGATGGGC CCATTCAACC CAACGTAACC 6720 6561 GACCCACAGAAG CGGTGCCGGA AAGCCTGGCT ACCGGTCGAAC CCAACGGAAAC ATACCACCGGC CCAACCGAAC CAACGTAACC 6780 6781 TATCCCATTA CGGTCAAACC GCCGTTTGTT CCCACGGAAAC ATCCCACGGAAT TATTTTAACAACAAAAAAAAAA	5761 CGTTGGGGCCCCTTTT AATAGTGGAC ICTIGITECA GATTTCGGAA CCACCATCAA 5880 5821 CTATCTCGGG CTATCCTTTT GATTATAAG GGATTTTCACG GATTTCGGAA CTCCCCCTGOOO 5881 ACAGGATTTT CGCCTGCCGG GGCCAAACCACCCC GGCGTTGCCC GTGAAAAAGAA AAACCACCCC 6000 5941 CCAGGCGGTG AAGGGGCAATC AGCTGTTGCC CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6120 6001 ACGACAGGTT TCCCGACCCAG GATTACACT TTATGCTTCC GGCCAATTAAAT GTGAGGTTAGC 6180 6121 TCACTCATTA GGCCACCCAG GCTTTACCACT TTATGCTTCC GGCCTCGTTT TTACAACGTC 63240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCCAATTAAAT AAGTGAAACAC 6360 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT TTATGCTCTG TTACAACCGTC 63240 6301 AAGCACTATT GCACTGCCCC GTTACCCCAAG CTTTGTACCTG TTATGCCCTG TTACACACCTG GASOCCCGCACC 6480 6241 GTGACTGGGA AAACCCTGGCC TTTACCGCTT ACTTGTACCTG TTATGCTCA CCATAGGGAT 6540 6361 CGCCCAGGTC CAGCTGCTCG CTTAAAGACA TTATGTTGCCCA GGGGAATTATA CCATAGGGAT 6540 6481 TGAGTACATT GCACTGCTCG CTGCTAAGGC TGCATTCAAT GTTGGTGCTA CCATAGGGAT 6540 6481 TGAGTACATT CACAGGCTT GGGCCAAGGGCCT TTCCTGAGGC CCATAGGGAT 6540 6541 TAAATTATTC AAAAAGTTTA CGGGCCAGCCTG AATGGCGAAT TTCCTGAGGC CGCACC 6660 6541 TAAAATTATTC CAAACAGTT AGGACCAGGCT TACAGATGCGC CAACCGTAACCC CAACGTAACCC 6780 6661 GCACCAGAAG CGGTGCCGGA AAGCTGGCTG GATGCGAAC ACCCGAACTTTACCAC CAACGTAACCC 6780 66721 GTGGTCCCCCT CAAACTGGCA GATGCACCGT TACAGAGGCA ATCCGACCAGG TTGTTACTCG 6840 6721 GTGGTCCCCT CAAACTGGCA GATGCACCGT TACAGAGGCA ATCCGACCAGG TTGTTACTCG 6840 6721 GTGGTCCCCT CAAACTGGCA GATGCACGGT TACAGAGCA AGCCGCAAATTATTTTTTTTTT	5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC ICTIGTICCA GATTTCGGAA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTATAAG GGATTTTGCC GATTTCGCAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG TGGTGACCACC TTGCTGCAAC AAACCACCCT GOOD 5941 CCAGGCGGTG AAGGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAAAAAAA	5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC ICTIGITEC GATTCGGAA CCACCCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTCGCAAC TCACCAGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC AAACCACCCT 6000 5881 ACAGGCGGTG AAGGGCAATC AGCCTGCCG CGCTCGCTG GATTCATTAA TGCAGGTTGGC 6060 5941 CCAGGCGGTG AAGGGCAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGTGAGGTTAGC 6120 6001 ACGACAGGTT TCCCGACTGG AAAGCGGGGCA GTGAGCGCAACTTAAT GTGAGGTTAGC 6120 6011 ACGACAGGTT TCCCGACTGG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TTACAACCGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCCT TTACAACCGT TTACAACCATCA GGCGCAACCAGGT TTACAACCATTACCACT TTACAACCATTACTG TTACAACCATT TTACAACCATTACCACT ACCGTTACCCTA GGCGAAAAAAAAAA
5701 ATTTGGGTGA TGGTTCAGGT AGIGGGCCAL TCTTTTCCA AAATGGGAACA ACACLCLAACC 5820 5761 CGTTGGGAGTC CACGTTCTTT AATAGTGGGAC CGCTGGTTGCCAAC CACCCATCAA 8820 5821 CTATCTCGGG CTATICTTTT GATTTATAAG GGATTTTGCC GATTTTTGGAA CCACCATCAA 65840 5821 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 60060 5841 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCTCTCGCTG GTGAAAAGAA AAACCACCCT 60060 6001 GGCGCCAAAT ACCGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT GTGAGCTGGC 6120 6001 GGCGCCCAAT ACCGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGTGAGTGGAC 6120 6011 GGCGCCCAAT ACCCCAAACCACT TTATATGCTTCC GGCCGTCGTT TTACAACGAC 6320 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATATGCTTCC GGCCGTCGTT TTACAACGAC 6320 6121 TCACTCATTA GGCACCCCAG GCTTTACCCCTA ACTTGGCACT GGCCGTCGTT TTACAACGAC 6320 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGGAAAAATA AAATGGAACA 6320 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGGAAAAATA AAGTGGAACA 6320 6301 AAGCACTATT GCACTGGCC GTTACCCTAACGTT ACCGTTACACGTT ACCGTTACACGT CAGTGGACCC GAGGAAAATA AAGTGGAACA 6320 6301 AAGCACTATT GCACTGGCC GTTACCCTT ACCGTTACACG GGGGATTGTA CCATAGGGAT 6420 6301 AAGCACTATT GCACTGGCCA GACTCAAGGC TGCATTCATA AGTTTACAAC CAACAGATC 6420 6301 AAACCCTGGC AGTGACCC CTGCTAAGGC TGCATTCATA AGTTTACAAG CAAGAGAT 6540 6421 CTAGGCCTGAA GGCCATGGCT GGGCTATGGT ACCGTTACACG CAACAGATC 6420 6421 TGAGTACCATT GGCTACGCTT GGGCTAAGGC TGCATTCATA ACTTTACAGC CAACAGATC 6540 6421 TCAGACTATT GGCTACGCT GGGCTATGGT ACCATGGAAC ACCGCACGACC 6600 6541 TAAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTACGATCAAGA GCCGCTTTGCC GAGGGAACAGCC CGACCCTACCACCACGACGACGC CAACCTACACGACGACGACGC TTACCACCACGACGAACCACAGTT ACCACGAGAACACACACACACACACACACACACACACAC	5701 ATTTGGGTGA TGGTTCACGT AGIGGGCCAL TCTTTTCCA AAATGGGAACA ACACLCAACC 3880 5761 CGTTGGGAGTC CACGTTCTTT AATAGTGGGAC TCTTTTTGGAA CCACCATCAA 8880 5821 CTATCTCGGG CTATICTTTT GATTTATAAG GGATTTTGCC GATTTTTTGGAA CCACCATCAA 65940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACGC TTGGTGCAAC TCTCTCAGGG 5940 5941 CCAGGCGGTG AAAGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6006 6001 GGCGCCAAAT ACGCAAACCAC CCTCTCCCCG CGCGTTGGCC GATTCATTAAT GTGAGCTGGC 6020 6001 GGCGCCCAAT ACGCAAACCAC CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGTGAGTGGAC 6120 6061 ACGACAGGGT TCCCGAACCGG AAAGCGGCAA GTGAGCGCAA CGCAAATTAAT TTGTGTGTGGAA 6180 6061 ACGACAGGTT TCCCGACCAG GCTTTACACCT TTATGCTTCCC GGCCGTCGTT TTTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TATTGGCACCT GGCCGTCGTT TTTACAACGAC 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACACT TTATACCCTG TGACAAAAACA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTGTACACT TTATACCCTG TGACAAAAACA 6300 6301 AAGCACTATT GCACTGGCA CTTTACCCTT ACTGTGCCCA GGGGATTGTA CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCA CTTTACCCTT ATTGTGCCCA GGGGATTGTA CTAGTGGATC 6420 6301 AAGCACTATT GCACTGGCA CTCTTACCGTT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6540 6421 CTAGGCCTAA GGCCATGGCT GGCCTAAGGC TGCATTCATA ACTTTACAGC CAACGATAC 6480 6421 CTAGGCCTAA GGCCATGGCT GGCCTAGGCT ACCATCAAC ACTTTACACC CAACCTACCC 6660 6481 TGAGTACCCTT CCCAACAGTTA CGGCCAGCCTG AATGGCGAAT GGCCCTTTGCC CAACCTACCC 6600 6541 TAAAATTATC AAAAAGTTTA CGGCCAGCCTG AATGGCGAAC GCGCCTTTGCC CAACCTACCC 6600 6541 TAAAATTATC CAACACAGTT CGGCCAGCCTG GAGTGCCGAC CACCGACCGAC CGCCCCCACCCACCCACCACCACCACCACCACCACCACCA	5701 ATTTGGGTGA TGGTTCAGGT AGIGGGCCAL TCTTTTCCA AAATGGGAACA ACACLCLAACC 5820 5761 CGTTGGGAGTC CACGTTCTTT AATAGTGGGAC CGCTGGTTGCCAAC CACCCATCAA 8820 5821 CTATCTCGGG CTATICTTTT GATTTATAAG GGATTTTGCC GATTTTTGGAA CCACCATCAA 65840 5821 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 60060 5841 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCTCTCGCTG GTGAAAAGAA AAACCACCCT 60060 6001 GGCGCCAAAT ACCGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT GTGAGCTGGC 6120 6001 GGCGCCCAAT ACCGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGTGAGTGGAC 6120 6011 GGCGCCCAAT ACCCCAAACCACT TTATATGCTTCC GGCCGTCGTT TTACAACGAC 6320 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATATGCTTCC GGCCGTCGTT TTACAACGAC 6320 6121 TCACTCATTA GGCACCCCAG GCTTTACCCCTA ACTTGGCACT GGCCGTCGTT TTACAACGAC 6320 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGGAAAAATA AAATGGAACA 6320 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGGAAAAATA AAGTGGAACA 6320 6301 AAGCACTATT GCACTGGCC GTTACCCTAACGTT ACCGTTACACGTT ACCGTTACACGT CAGTGGACCC GAGGAAAATA AAGTGGAACA 6320 6301 AAGCACTATT GCACTGGCC GTTACCCTT ACCGTTACACG GGGGATTGTA CCATAGGGAT 6420 6301 AAGCACTATT GCACTGGCCA GACTCAAGGC TGCATTCATA AGTTTACAAC CAACAGATC 6420 6301 AAACCCTGGC AGTGACCC CTGCTAAGGC TGCATTCATA AGTTTACAAG CAAGAGAT 6540 6421 CTAGGCCTGAA GGCCATGGCT GGGCTATGGT ACCGTTACACG CAACAGATC 6420 6421 TGAGTACCATT GGCTACGCTT GGGCTAAGGC TGCATTCATA ACTTTACAGC CAACAGATC 6540 6421 TCAGACTATT GGCTACGCT GGGCTATGGT ACCATGGAAC ACCGCACGACC 6600 6541 TAAAATTATTC AAAAAAGTTTA CGAGCAAGGC TTACGATCAAGA GCCGCTTTGCC GAGGGAACAGCC CGACCCTACCACCACGACGACGC CAACCTACACGACGACGACGC TTACCACCACGACGAACCACAGTT ACCACGAGAACACACACACACACACACACACACACACAC	5701 ATTTGGGTGA TGGTTCAGGT AGIGGGCGAL TCCTTGTTCA AACTGGAACA ACACCACCATCAA SE80 5761 CGTTGGGAGTC CACGTTCTTT AATAGTGGAC TCCTTGCTGAA CCACCATCAA SE80 5821 CTATCTCGGG CTATTCTTT GATTTATAAG GGATTTTGCC GATTTCGGAA CCACCATCAACGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAAAGAA AAACCACCCT 6000 5881 ACAGGCGGTG AAGGGCAATC AGCTGTTGCC CGCTCTGGCC GTGAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAACCG CCCTCTCCCCG GGGGGCAA CGCAATTAAT GTGAGCTGGC 6020 6001 GCGCCCCAAT ACGCAAACCG CCCTCTCCCCG GTGAGCGCAA CGCAATTAAT GTGAGCTGGAA 6180 6061 ACGACAGGTT TCCCGAA GCCTCTCCCCG GTGAGCGCAA CGCAATTAAT GTGAGTTAGC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACAACT TTATGCTTCC GGCCCGTCGTT TTACAACGTC 6240 6181 TTGTGAGTGGA AAACCCTGGC GCTTACCCGTC ACCTTGCACT GGCCGTCGTT TTACAACGTC 6240 6241 GTGACTAGGA AAACCCTGGC GTTACCCCAAG CTTTGTACAT GGAGAAAAAAA AAGTGAAACA 6360 6241 GTGACTAGGA AAACCCTGGC ACTTACCCGTT ACCGTTACTG TTACCCCTG TGACAAAAAGC 6360 6361 AAGCACTATT GCACTGGCCAC CTTTACCGTTA ACCGTTACTG TTACCCCTG TGACAAAAAGC 6360 6361 CGCCCCAGGTC CAGCTGCTCC AGGCCCT ATTGTGCCCCA GGGGGATTGTA CCATAGGGAT 6540 6481 TGAGTACATT GCACTGGCAC CTGCTAAAGGC TGCATTCAAT AGTTTACAGG CTACAGGCT 6540 6541 TAAATTATTC AAAAAGTTTA CGAGCCAGGC TTCTTAAACA ATAGCGAAAA GGCCCGCCACC 6660 6541 TAAATTATTC CCAACACAGTT GGCCAGCCTG AATGGCAAT AGGCAAAAAA ATTTTCCG 6660 6551 GCACCAGAAAG GGCGATGACC GCCGTTTGTT TACGAATACGGCC CCATCTACAC CAATACGGTC 6720 6561 GCACCAGAAAG GGCGATGACC GCCGTTTGTT TACGAATACGGT TTCTAAGCAAAAAAAAAA	5701 ATTTGGGTGA TGGTTCACGI AGIGGGCCAL COLLECTICA AACTGGAACA ACACCARAC 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTCCACGA ACCCCATCAA 5880 5821 CTATCTCTCGGG CTATTCTTT AATAGTGGAC CGTTGCCACC CTTGCTGCAAC TCTCCAGGG 5940 5821 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGGCCG CTTGCACAC TCTCCAGGG 5940 5821 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCCG GTGAAAAGGAA AAACCACCCT 6000 5841 ACAGGAGTT TCCCGACTGG GGCAAACCAG CGTCTCCCCC GGCGTTGGCC GATTCATTAA TGCAGCCGGC 6060 6001 GGCGCCCAAT ACGCAAAACCAG CCTCTCCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGAA 6120 6001 GGCGCCCAAT ACGCAAAACCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACCAACTGGAAACAG 6120 6011 TCACTCATTA GGCCACCCAG GCTTTACACT TTATTGCTTCC GGCCGTCGTT TTACCAACAGGT CACACAGGAACAGACAG GTTACCACT TTATTGCTTCC GGCCGTCGTT TAAGTGAAAAAG 6360 6121 TCACTCATTA GGCCACCCAG GCTTTACACAT TAATTGCACCCT TGACAAAAAGC 6360 6241 GTGACTGGGA AAACCAATTT CACACCGGTC ATTGTGCACT GGAGAAAAACA 6360 6241 GTGACTGGGA AAACCAATTT GCACCACGGTC ATTGTGCCCTG TGACAAAAAGC 6360 6361 AAGCACTGTAA GGCGATGACC TCTTACCGTT ATTGTGCTCCTA TAAGTGGAATC 6480 6361 CGCCCAGGTC CAGCTGCTC AGCTCAGGCCT ATTGTGCCCTA ATTGTGCCCA CAAGTGCAAC 6360 6361 CGCCCAGGTC CAGCTGCTC AGCTAAGGCC TACTTACAAT AGTTGTGCCCA CCAACAGGAACAC 6580 6361 CGCCCAGGTC CAGCAGTTC CCGAGCAAGGCC TTCTTAAGCAA AGGGGAATCACGTC CCAACAGGAACACGCAACCAGCACC 6660 6421 CTAGCCTACACTT GCACCAGCTT GGGCTATAGGC TTCTTAAGCAA ATAGCGAAGAA GGCCCGCACC 6660 6421 TAAAATTATTC AAAAAAGTTTA CGAGCAAGCCT AATGGCGAATC TCCCTGACCACC CCACCGACC 6660 6521 GACCCACAAAA GCGGGAACACCGGAA AAGCGGAATC TCCCACCAACAACACC CAACAGTAACACC 6780 6521 GCACCACAAAA CATTACCAATC CACCAGCAGAAC CAACAGAACAACACC TTTTTAACAACAAAAA ATTTAACACAAAA ATTTTAACACAAAAA ATTTTAACACAAAAA AATTTTAACACAAAAAAAA	5701 ATTTGGGTGA TGGTTCACGI AGIGGGCCAI COCCETTCCA AACTGGAACA ACACCARAC 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTCTCAGGG 5940 5881 ACTGCGGG CTATTCTTT GATTTATAAG GGATTTTGCC GATTTCGCAAC CCATCAA 5880 5821 CTATTCTCGGG CTATTCTTT GATTTATAAG GGATTTTGCC GATTCCGCAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCCAAA AAACCACCCCT 6000 5881 ACAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCGG GTGAAAAGGAA AAACCACCCCT 6000 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 60120 6001 GGCGCCCAAT ACGCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGCA 6120 6001 ACGACCAGGTT TCCCGACTGG AAACCACCCCCAG GCCTTTACACT GGCCGTCGTT TTACAACACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACACAC 6300 6241 GTGACTAGGA AAACCCTCGCC GTTACCAGCT ACTTTGTACACT GGCCGTCCTG TGACAAAAGA 6300 6241 GTGACTAGTT CACCTGGCAC TCTTACCGTT ACCGTTACTG TTTACCCCTG TGACAAAAACA 6300 6361 CGCCCAAGGTC CAGCTGCTCG AGTCAGCGTA AGTGTACCCCTG TGACAAAAGAC 6300 6361 CGCCCAAGGTC CAGCTGCTCG AGTCAGCGT ATTGTGCCCCA GGGGATTGTA CTAGTGGATC 6420 6361 CGCCCAAGGTC CAGCTGCTCG AGTCAGCGT ATTGTGCCCCAA AGTGTTACAC CCATAGGGAT 65400 6361 CGCCCAAGGT CAGACTTT GGGCTAAGGGCT TACAATTTAACAACAC CCATAGGGAT 65400 6361 CGCCCCAACACT TCCCCACAGTT GGGCTAAGGGCT TACAACACAC CAACAGGATAC 6600 6361 GATCGCCCTT CCCCACAGTT GGGCTAAGGGCT TACGATTCAAC CTTCCTGAGGC CGATCCCCACCCACC 6600 6541 TAAAATTATTC CAAACAGTTT CGCCACAGGT TACGACTGGAC CCAACCGGAC CAACAGGTACC 6600 6541 TAAAATTATAC CAACAGGT TACGACCTG AATTGCACAC CAACAGGTAC 6780 6601 GCCCCCATTAC CCCTACAGTT TAAAATATTTG CTTAACAAAA ATTTAACAACAAAA TATTTAACA 6900 6721 GTCGTCCCCT CAAACCGGCT CAAACCGGAC CAACAGGAACAC CAACAGGTACC 6780 6721 GTCGTCCCCT CAAACCGGCAACCCAACAGGTA CACCGACCACACACACACACACACACACACACACACAC	TOTT ATTIGGATA TGGTTCACGI AGIGGGCAIL COUNTY AND TOTAL TOTAL TOTAL AGACTACAC S880 TGGAC CATTAGAGE CACCATCACA S880 TGGAC CATTAGAGE CACCATCACA S880 TGGAC CATTAGAGE CACCATCACA S880 TGGAC CATTAGAGE CACCATCACAC S880 TGGAC CATTAGAGE CACCATCACAC S880 TGGAC 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CGCCCAGGGT GACGCTT GGCCACAGGC TCTTACACCCAAG CTTCAATA GGTGGCTAC CAAGTGCTAC 6480 6361 CTAGGCTGCAGGT GACCCACAGGC TCTTACACCAAGACC AAGTTTACAG CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAGG CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAATA GTTGGTGCCAC CAAGTGCTAC 6540 6481 TGAGTACATT CAAACAGTTA CGGCCAGCCTG AATGGCGAACA ATAGGGAAAAAC GGCCCCCACCC 6600 6541 TAAATTATTC AAAAAAGTTAT CGCCACAGCTA AAGCCGAACACC CAACGTTACCAC CGCCCCACCGTT CCCAAACAGTT CCCCAACAGTT CCCCAACAGTT CCCCAACAGTT CCCCAACAGTT CCCCAACAGGT TACCACGT AACCCGTT CCCAACACGT AACCCGTT CCCAACACGT AACCCGTT CCCAACACGT AACCCGAACCCGT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCGCT TACCACCG	5641 GGGGGCTCCC ITTAGGGTCA AGTIGGCCAT CGCCCTGATA GACGGTTTTT AACACTCAACC 5820 5761 ATTTGGGTGA TGGTTCACGT AGTIGGCCAT CGCCCTGATA ACACTGGAACA ACACCATCAACC 5820 5761 CGTTGAGGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAAC CCACCATCAACC 5820 5821 CTATCTCGGG 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TGACAAAAACC 6360 6361 CGCCCAGGGT GACTGGCAC TCTTACCGAAG CTTTGTACCCCACTG TTTACCACCCTG TGACAAAAACC 6360 6361 CGCCCAGGGT GACGCTT GGCACTAAGGC TTCTTACACAC AGGGGATACAACA 6350 6361 CACCAGGTA GACCCTGCTAAGGC TTCTTAACCCCAAG CTTCAATA AGGTTTACAG CAAGTGCTAC 6480 6361 CTAGGCTCCCTT CAAACAGTTA CGGCCAGCCTG AATGGCCCACA AGGTTTACACA CAAGTGCTAC 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAATA GTTGGTGCACC CAAGTGCTAC 6540 6481 TGAGTACATT CAAACAGTTA CGGCCAGCCTG AATGGCGAACA ATAGCGAAAAAA GGCCCCCCACC 6600 6541 TAAATTATTC AAAAAAGTTTA CGCCACAGCTT GACCAGCACC AAGGCCCACC 6720 6601 GACCCAGAAA CCGGTGCCGGA AAGCTGGCTA CAGGCCCCACCGTTTCCCG 6600 6721 GTCGTCCCT CCAAACAGGT ACCAGCTT TACCACGT TTCCTGAGCC CCACCGTTTCCCG 6840 6721 GTCGTCCCT CAAACCGGA AAGCTGGCCC CAACGTACCGGT TACCACGTT TACCACTTTCTTACCCCTTTTCCCG 6600 6721 TACCCCATTA CGGTCAATCC GCCCAGCTTG TACCACACAAAAA ATTTTACCACT TTTTTTACCCCTTTTTTTT	5641 GGGGGCTCCC   ITAGGGT	5641 GGGGGCTCCC	5641 GGGGGCTCCC TITAGGTTCACGA 5761 ATTTTGGGTGA 5761 CGTTGGGTCACGA 5820 5761 CGTTGGGTC 6ACCGTTCTT 6ATAGTGGAC 5761 CGTTGGGAC 6ACCACCATCAA 5880 5761 CGTTGGGGC 6ACCCATCAA 5880 5761 CGTTGGGGC 6ACCACCATCAA 5880 5761 CGTTGGGGC 6ACCCATCAGGC 5821 6761 CGTTGGGGC 6ACCCATCAGGC 5821 CTATCTCGGG 6CAATTCATTA 6GGCGACCGC 6GCAAACCAG 6GCAAACCAG 6GCAAACCAG 6GCAAACCAGC 6GCAAAACCAG 6GCAAACCAGC 6GCAAACCAGC 6GCAAACCAGC 6GCAAACCAG 6CACCATTAA 6GCACCAGTT 6GCACCCAAA 6CACCAGTT 6GCACCCAAA 6CACAGGTT 7CACCCAACCCCCAG 6CACCCCAAT 6CACCAGGT 6CACCCCAAC 6CACCACCCCAAC 6CACCACCCCAAC 6CACCACCCCCAAC  6CACCACCCCCCAAC 6CACCACCCCCCAAC 6CACCACCCCCCAAC 6CACCACCCCCCAAC 6CACCACCCCCCACC 6CACCCCCCCC	S641 GGGGGCTCCC 111AGGG110 CACTGGCCTT CGCCCTGATA GACGGGACA ACCACCATCAAC 5820 5761 CGTTGGAGTC CACGTTCTT AATAGTGGAC TCTTTTCCA AACTGGAACA CCACCATCAA 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTCTAAAC 5820 5821 CTATCTCGGG CTATTCTTTT GATTTAAAG GGATTTTGCC GATTTCGTAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC AAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6060 6001 GGGGCCCAAT ACGCAAACCA CCCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGAC 6120 6001 ACGACAGGTT TCCCGACTGG AAACCAGC CTTTACCACT GGCCGTCGTT TTACAACGTTAGC 6240 6121 TCACTCATTA GGCACCCCAG GCTTAACCCAAG CGCTATGGTT TACAACATGAA 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCCCAG GGCCAACTTACT TTACAACATT TACAACATT CACACGCGTC ACTTGGCACT GGCCGTCGTT TACCAACAGAC 6340 6121 TCACTCATTA GGCACCCCAG GCTTTACCCCAAG CTTTGTACAT GTGAGAAAAA 66300 6241 GTGACTGAGGA AAACCATGGC TTTACCCCAAG CTTTGTACAT GTGAGAAAAAA 66300 6241 GTGACTGAGGA AAACCATGGC TTTACCCCAAG CTTTGTACAT GTGAGAAAAAA 66300 6341 TGAGGAGAAATT GCACTGGCC TTTACCCGTT ACTGTACAT GTTACCCCTG TGAACAAAAAC 63400 63501 AAGCACTATT GCACTGGCC TTTACCGGTT ACCGTTACAT GTTACCCCTG TGAACAAAAAC 63400 6361 TGAGATATATT CACACGCGTT GGCCAGGCCT ATTGTGCCCA GGGGATTGAA CCAATGGGAT 65400 6361 TGAGATATTATC CACACGCTT GGGCAAGGCC TACCGTTACAC ACAGGGAAA 66421 CTAGGGGATACGAC CTGCTTACCGGT AGGCCAAACCAACAATTTAACAC CAACAGAACAATTTAACACCAACAACAATTTAACCACCAACAGTT GCGCAAGCCTGGTT GAGCAAAACAAATTAATACCAACAACAATTTAACAACAAAAAA	GGGGGCTCCC TITAGGGTA TO AGTGGCCCT TO CGCCCTGATA GACCGGTTT CACCCTACCC 5820 5761 ATTTGGATGA TO GGTTCACCT AGTGGCCCTT CACCTCAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGGAAC ACACCATCAA 5880 5761 CTATCTCGGG CTATTCTTT AATAGTGGAC TCTTGTTCCA GACTTGCGAAC CTCTCAGGG 5940 5821 CTATCTCGGG CTATTCTTTT GATTATAAG GGATTTTGC GATTCATCAAC FS940 5821 CTATCTCGGG CTATTCTTTT GATTATAAG GGATTTTGC GATTCATTAAT TGCAGCTGGC 6000 5821 CCAGGGGGGG AAGGGGCAATC AGCTGTTGCC CGTGTGGCC GATTCATTAAT TGCAGCTGGC 6000 5821 CCAGGGGGG AAGGCAACCG GACTGTTGCC CGCGTTGGCC GTGAAAAAGAA AAACCACCCCT GGCCGCAAT ACGCAAACAC GCCAATTAAT TGCAGCTGGC 6120 6001 ACGACCAGTT TCCCGAACACG CCTCTCCCCG CGCGTTGGCC AGCCATTAAT TTTGTGTGGAA 6180 601 ACGACCAGTT TCCCGAACACG GCTTTACCACT TTTTGCCCCA GGCCGCTCGTT TTTACAACACTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TCTTGGCCACT GGCCGCTCGTT TTACAACACTC 6240 6121 TCACTCATTA GGCACCCAG GCTTTACCACT ACTTGGCCCACT GGCCGCTCGTT TTACAACACTC 6420 6121 TCACTCATTA GGCACCCAG GCTTACCCCAAG CTTTGTGCCCA GGGGAAAAATA AAACTGGAAACA 6340 6221 AAGCACTATT GCACCTGGCA AGTCACCGAAC TTTTACCCCTA ACTTGTACCCTA TTTACCCCTA TTGGAACAACAC 6420 6361 CGCCCCAGGTC CAGCTGGCA AGTCACAGGGCT ACTTGGCCCA ATGGCAACAC CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TGCATTCAAT AGTTTACAC CCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TTCTTAAGCCA ATAGCGAAAAA GGCCCGCACC 6660 6421 CTAGGCTGAAACAGTT GCGCCAGCCTG AATGGCGAAAT TATTTTTACCACT TCCCAACAGTTAACC 6780 6541 TAAATTATTC AAAAAGTTTA CGGCCAGCCTG AATGGCGAAC CCATCTACACC CAACGTAACC 6780 6541 TAAATTATTC CAAACAGTT GCGCCAGCCTG AATGCCAAGAC CCATTCACAC CAACGTAACC 6780 6541 TAAATTATTC CAAACAGTT TAAAATATTTGT CCAGGAAGAC CCATTCATAACA AATTTTTTTTTT
5841 GGGGGCTCCCC TTTAGGGTTC CGATTTAGTG CITTACAGGA ACAGGGTTTTT CGCCCTTTGA 5800 5761 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTTGATA ACTGGAACA ACACTCAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGAAC TCTTCAGGG 5940 5821 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTTCAGGG 5940 5821 CCAGGGCGCCAAT ACGCAAACCAG CGTGGACCGC TTGCTGCAAC AAACCACCCT 6000 5941 CCAGGCGGTA ACGCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGC 6060 6001 GGCGCCCCAAT ACGCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGC 6120 6001 GGCGCCCCAAT ACGCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGCA 6120 6001 GGCGCCCCAAT ACCCAAGCAC CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGCA 6120 601 ACGACCAGGT TCCCCAGG CCTTTACCACT TTATGCTTCC GGCCGTCGTTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCCGTCGTT TTACAAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCCGTCGTT TTACAAACGTC 6240 6241 GTGACTGGGA AAACCCTGGC GTTACCCATAG CTTTATCACT GGAGAAAACAA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTATACAT GGAGAAAAACA 6300 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAATAGGGAT 6340 6421 TCAAGCTGAAACAATTT CACACTGATCACACT ATTGTGCCCA GGGGATTGTA CCAATAGGGAT 6540 6421 TCAAGCCTGAAACAACTTT GGCTAAGGC TTCTTAAGCCA ATAGCCAAGAA GGCCCACACC 6660 6541 TAAAATTATTC AAAAAAGTTTA CCAGCCAAGGC TTCTTAAGCA ATAGCCAAGA GGCCCCGCACC 6660 6541 TAAAATTATTC AAAAAAGTTTA CCAGCCAAGGC TTCTTAAGCCA ATTGTTTACAGC CAGACGCAAAT ACCCCAGACC 6660 6541 TAAAATTATTA AAAAATTATT ACAACCGGCA TTCTTAACAAAT CTTCTTGTTTAACACA TTTTTTAACAA GGCGATTCTCCACACAGTT TCCCACACAGTT TCCCACACAGTT TCCCACACTTT CCCACACAGTT TCCCACACAGTT TCCCACCATTAACCACT TTCTTAACACAT TTCCTTGTTTTTAACACAT TCCCACCACACGTT TCCCACCATTAACCACT TTCTTAACACAT TTCCTTGTTTTTAACACAT TTTTTTTTTT	5841 GGGGGCTCCCC TTTAGGGTTC CGATTTAGTG CITTACAGGA ACCGCATTTT CGCCCTTTTAA S800 5761 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTTGATA ACTGGAACA ACCACATCAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGACAC TCTTCAGGG 5940 5821 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGGTGCAAC TCTTCAGGG 5940 5821 CCAGGCGGTGA AGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 5941 CCAGGCGGTA ACGCAAACCA CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCCAAT ACGCAAACCA CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGCA 6120 6001 GGCGCCCCAAT ACCCAACCA CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGCA 6120 6011 ACGACCAGGTT TCCCGACTGG AAAGGGGGCA GTGAGCCGCAA CGAATTAAT GTGAGTTAGC 6120 6021 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGGTTCC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGGTTCC GGCCGTCGTT TTACAAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGGTTCC GGCCGTCCTT TTACAAACGTC 6240 6241 GTGACTGGGA AAACCAATT CACACGCGTC ACTTGGCACT GGAGAAAATA AAAGTGAAACA 6300 6341 GTGACTGGGA AAACCATGCCC GTTACCCAAG CTTTATCACTTACACT GAAGAAAAACA 6300 6351 CGCCCAGGTC CAGCTGCTCG AGTCACGGTT ACCTGGAAAATA AAAGTGAAACA 6300 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCATAGGGAT 6640 6421 CTAGGCTGAAC AGCTGCCA GATCAGGCCT TTCTTAACCATT ACAGG CAAAGTGCTAC 6480 6421 TCAAGCTGAAA AAACCCTGGCA AAGCCAGCTATAGGCC TTCTTAAGCA ATAGCGAAAAT CCATAGGGAT 6540 6481 TGAGTACCATT AGCTTACAGTT GCGCTATTGTT CCCACAGGCC CAACCGCC 6660 6541 TAAAATTATTA AAAAAATTAT CAGGCCAAGGC AATTAAACAAT TTCCTGAGGC CAGATCAGCC 6660 6541 TAAAATTATTAAC GTTTAAAAA AATGAGCTGCT ACGAGGAAAATA AACCCAGGAAC 6660 6541 TAAAATTATTAAC AAACCGGGAAAACGCAAATTAACAAAAATTAT AGCAACCGAT TAAAATATTATCAAACAAACCAACGTAACC 6780 6661 GCACCAGAAA CGCGATCGACCAAGGCC ATTAATTATTGC AAACAGGTTA ACCATTTAACAAAATTAT AGCAACCGAT TAAAATTATATTAACAAATATATTACAAATATATTATTACAAATATATTACAAATATATTACAAATTATT	5841 GGGGGCTCCCC TTTAGGGTTC CGATTTAGTG CITTACAGGA ACAGGGTTTTT CGCCCTTTGA 5800 5761 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTTGATA ACTGGAACA ACACTCAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGAAC TCTTCAGGG 5940 5821 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTTCAGGG 5940 5821 CCAGGGCGCCAAT ACGCAAACCAG CGTGGACCGC TTGCTGCAAC AAACCACCCT 6000 5941 CCAGGCGGTA ACGCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGC 6060 6001 GGCGCCCCAAT ACGCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGC 6120 6001 GGCGCCCCAAT ACGCAAACCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGCA 6120 6001 GGCGCCCCAAT ACCCAAGCAC CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGCA 6120 601 ACGACCAGGT TCCCCAGG CCTTTACCACT TTATGCTTCC GGCCGTCGTTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCCGTCGTT TTACAAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCCGTCGTT TTACAAACGTC 6240 6241 GTGACTGGGA AAACCCTGGC GTTACCCATAG CTTTATCACT GGAGAAAACAA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCAAG CTTTATACAT GGAGAAAAACA 6300 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ATTGTGCCCA GGGGATTGTA CCAATAGGGAT 6340 6421 TCAAGCTGAAACAATTT CACACTGATCACACT ATTGTGCCCA GGGGATTGTA CCAATAGGGAT 6540 6421 TCAAGCCTGAAACAACTTT GGCTAAGGC TTCTTAAGCCA ATAGCCAAGAA GGCCCACACC 6660 6541 TAAAATTATTC AAAAAAGTTTA CCAGCCAAGGC TTCTTAAGCA ATAGCCAAGA GGCCCCGCACC 6660 6541 TAAAATTATTC AAAAAAGTTTA CCAGCCAAGGC TTCTTAAGCCA ATTGTTTACAGC CAGACGCAAAT ACCCCAGACC 6660 6541 TAAAATTATTA AAAAATTATT ACAACCGGCA TTCTTAACAAAT CTTCTTGTTTAACACA TTTTTTAACAA GGCGATTCTCCACACAGTT TCCCACACAGTT TCCCACACAGTT TCCCACACTTT CCCACACAGTT TCCCACACAGTT TCCCACCATTAACCACT TTCTTAACACAT TTCCTTGTTTTTAACACAT TCCCACCACACGTT TCCCACCATTAACCACT TTCTTAACACAT TTCCTTGTTTTTAACACAT TTTTTTTTTT	5641 GGGGCCCAAT ACGCAACACT CACCTTGATA GTGGGCCATTTACTGC CATTTTACTGC ACCTTGATA GACTGGAACA CACCTCAACC 5820 5761 CGTTGGAGTC CACCGTTCHTT AATAGTGGAC TITTGTTCCA AACTGGAACA CACCATCAA 5880 5761 CGTTGGAGTC CACCGTTCHTT AATAGTGGAC TITTGTTCCA AACTGGAACA CCACCATCAA 5880 5761 CGTTGGAGTC CACCGTTCHTT AATAGTGGAC TITTGTTCCA AACTGGAAC ACCACCATCAA 5880 5821 CTATTCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTGCTGCAAC TITCTCAGGG 5940 5881 ACAGGATTTT CCCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC AACCACCCT 6000 5941 CCAGGCGCCCAAT ACGCCAACCC CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6006 6001 GGCGCCCCAAT ACGCCAACACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6020 6001 ACGACAGGTT TCCCCGACTGG AAAGCGGGCCA GTGAGCCCAACTTAAT TGCAGCTGGC 6020 6011 ACGACAGGTT TCCCCGACTGG AAAGCGGGCCA ACGCAACTTAAT TTACAACCGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCCTTCC GGCCGTCGTATG TTTACAACCGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCACCT GGACGAAAAACA 63300 6211 TTAGTGAGCCGA AAACCCTGGC GTTACCCCAAG CTTTGTACACT GGCCGTCGTTT TTACAACCGTC 6240 6211 TAGCTCACTA GCACTGGCAC CTCTTACCGTC TTATTACACT GGCCCCAGGTC TACAGACAAACC 6300 6301 AAGCACTATT GCACTGGCAC CTCTTACCGCT ATTGTTACAC GGGGATTACAC CTATGGGATC 6420 6301 AAGCACTATT CACACGCTC GATCAGGCCT ATTGTTACAC GGGGAGAAAAT AAACCACCT 6420 6301 AAGCACTATT CACACGCTC GATCAGGCT ATTGTTACAC GGGGAGAAAACA 6540 6301 AAGCACTATT CACACAGCTT GGGCACCTG AATGGCCCAAC AGGCCCCCACC 6400 6301 CTAGGCTGAAA GGCCTACGCTT GGGCACCTG AATGGCCAACAGGC CAACGTTACCG CAACGTTACCAC CACCGTTTCTAACGC TACGCTTACACC CAACACAGTT CCACACACACTT GGGCACCCTG AATGGCCACC GGGGATCACGCTT CACACACACACACACACACACACACACACACACACA	5841 GGGGGGTGA TGGTTCAGGT AGTGGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCCTTTAGA 5/80 5761 GGTTGGATC CACTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACTCAAAC 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACTCAAAC 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC CGATTTCGGAA CCACCATCAAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC CGTTTGGAAC CTCCTCAGGG 5940 5821 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 5941 CCAGGCCGAAT ACGCACAACCA CGCCAATTAAT TGGAGCTGGC 6050 6001 GGCGCCCAAT ACGCACACCG CACTCCCCC CGCGTTGGCC GATTCATTAAT GTGAGCTGGC 6020 6001 GGCGCCCAAT ACGCACACCG AAGAGCGGCA GTGAGCGCAA CGCCAATTAAT TGTGGTGGAA 6180 6051 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTCAC GGCCGTCGTT TTACAAACTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTACCCAT TTATGCTCAC GGCCGTCGTT TTACAAACCA 6300 6241 GTGACTGGGA AAACCCTGCC GCTTACCCGTT ACCGTTACAT GGAGAAAAAAA AAGTGAAAACA 6300 6241 GTGACTGGAA AGCCCTGCCAAG CTTTACCCAAG CTTTGTACAT GTAAGGATC 6480 6301 AAGCACTATT GCACTGCCAC CTTTACCCGTT ACCGTTACTG TTACAGCTG TGACTAGGATC 6540 6301 AAGCACTATT GCACTGCCAC CTTTACCGTT ACCGTTACTG TTACAGCTG TGACTAGGATC 6540 6301 AAGCACTATT GCACTGCCAC AGTCAGGCCT ACTGTTACAC ATAGCGAAAAA GGCCTACCGAC 6500 6301 AAGCACTATT GCACTGCCAC AGTCAGGCCT ATTGTGCCCAC ATAGCGAAAAA GGCCCACCCGCCCCCCCCCC	5841 GGGGGCTTCCC TTTAGGGTTC CGATTTAGTG CITIAGGGTA GACGGTTTTT GGCCCTTTGA 5/50 CGCGGGGTTCCCC TTTAGGGGTTC CGCCGGGA GACGGTTTTT GGCCCATCAACC 5820 5761 GGTTGGGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACTCAACC 5820 5761 CGTTGGAGT CACGTTCTTT AATAGTGGAC CTTTGTTCCA AACTGGAACA CACCCATCAA 5880 5821 CTATTCTCGGG CTATTCTTT GATTTATAAG GGATTTTGCC GATTCACTAAA AAAACCACCCT 6000 5881 ACAGGCGGTG AAGGGCAATCAA GGCCGCGCGCGCGCGCGCGCGTTGGCC GTGAAAAGAA AAACCACCCT 6000 5841 CCAGGCGGTG AAGGGCCCAATCAACCGC CCTCTCCCCCG CGCGTTGGCC GATTCATTAAT TGCAACTGGC 6050 6001 GGCGCCCAAT AACCAAACCACCCCCCCCCCCCCCGCGCGTTGGCC GATTCATTAAT TGCAACTGGCA 6120 6001 GGCGCCCAAT AACCAACCCCCG CCTCTCCCCCG CGCGTTGGCC GATTCATTAAT TGCAACTGGCA 6120 6001 ACGACAGGTT TCCCCAAACCAC CCTCTCCCCCG CGCGTTGGCC GATTCATTAAT TGCAACTGGAA 6180 6011 TCACTCATTA GGCAACCCCGAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAAAAACA 6300 6121 TCACTCATTA GGCAACCCCGG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAAAAAACA 6300 6241 GTGACAAAACAA AACCCCTGGC GTTACCCCAAG CTTTGTACACT GGGAGAAAAAA AAAGCAACAACA 6300 6241 GTGACAAAACAA TTTACCCCATT CACCCAAACAC GTTACCCCAAG CTTTGTACCCTT GGGAGAAAAAA AAATAAAACAACCCTGGCC GTTACCCCAAG CTTTGTACCATT GGGAGAAAAAA AAACAACAACA 6300 6241 GTGACAAAACAA TTTACCCCATT CACCCAAACAC CTTTACCCCTT ATTGTGCCCCAAACACC GAACGGAACA 6300 6241 GTGACAAAACAATT CACCCAAGGCCT ATTGTGCCCCAAGGGCCT GAACACAACAC	5841 CGGGGGTTCCCC TTTAGGGTTC CGATTTAGTG CILIACGGAA GACGGTTTTT CGCCCTTTGA 5/60 5/701 ATTTGGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGGAA CCACCATCAACC 5/820 5/761 CGTTGGGGTC CACGTTCTTT AATAGTGGGAC TCTTGTTCCA AACTGGAACA ACACTCAACC 5/820 5/761 CGTTGGGGTC CACGTTCTTT AATAGTGGGAC CTCTCCCCG AACCTCAACA TCTCTCAGGG 5/940 5/821 CTATCTCGGGG CTATTCTTT AATAGTGGGAC CGTGGGACCCACTTAAC TCTCTCAGGG 5/940 5/821 CTATCTCGGG CTATTCTTT GATTTATAAG GGATTTTGCC TTTGCTGCAAC TCTCTCAGGG 5/940 5/821 CTATCTCGGG CAACCACC GGCGTGGACCCACCC TTGCTGCAAC TCTCTCAGGG 5/820 5/821 CCAGGCGGTG AAGGGCCAACCAC GGCGTTGGCC GTGAAAAAGAA AAACCACCCT 6/000 5/941 CCAGGCGGTG AAGGGCAAATCAC AGCTTGTCCCCG CGCGTTTGGCC GGCTAATTAAT TGCAGCTGGAC 6/120 6/001 GGCGCCCAAT ACCCAAACCAC CCTCTCCCCG CGCGTTGGCC GATTTAAT TGCAGCGGC 6/120 6/001 GGCGCCCAAT ACCCAAACACGC ACTTCCCCCG CGCGTTGGCC GATTTAAT TGCAGCGGC 6/120 6/121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCTCGTTT TTACCACTTAAT TTACCACTCATTA GGCACCCCAAG GCTTTACCACT TTATGCTTCC GGCCGCGTCGTT TTACCACTTAAC 6/120 6/121 TCACTCATTA GCCACCCAGG GCTTTACCCCAAG CTTTTGTACCAT GGAGAAAATA AAGTGAAAAAGC 6/3400 6/121 TCACTCATTA GCACCCACC GTTTACCCCAAG CTTTTGTACCAT GGAGAAAATA AAGTGAAACAACCACGGATCACC CTTTCACACCATTA AGTTTACCCCCTG CAACCTGACC AGTCACAGGCT ACCGGTTCACCCCTA GGGGATTGACC CAACGTGCACC 6/120 6/121 CCACGGGAAC AAACCCCTGCCC CTGCTAAAGGC TACCGATTCAAT AGTTTACCCCTTA CCAAACAACAGTT CGAGCAAAGGC TTCTTACCACTTAAAA AATAGATAATATAAT	5841 CGGGGGTTCCCC TTTAGGGTTC CAATTTAGTG CITIAGGGAA GACGGTTTTT CGCCCTTTGA 5/50 5/701 ATTTGGGGTGA TGGTTCACGT AGTGGGCCAT CCCTGGTAA AACTGGAACA ACACTCAACC 5820 5/701 ATTTGGGGTCA CGGGTTCTTT AATAGTGGAC CTCTGTTCCA AACTGGAACA CACCCATCAA 5/880 5/701 ATTTGGGGTC CACGTTCTTT AATAGTGGAC CTCTGTTCCA AACTGGAACA CACCCATCAA 5/880 5/701 CTATCTCGGGG CTATTCTTT AATAGTGGAC CGTGGACCGC TTGCTGCAAC TCTCTCAGGG 5/940 5/811 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAGGG 5/940 5/941 CCAGGCGGTG AAGGGCCAATCAATCAA TGCAACCTGG CCCTCCCCCG CGCGTTGGCC GATTCATTAAT TGCAACTGGC 6020 6001 GGCGCCCAATAAA TGCAACCAGCCC CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGCAACTGGCA 6120 6001 ACGACAGGTT TCCCGACAGG GCTTTACACT TTATGCTTCC GGCCGTATG TTGTGTGGAAACA 6180 601 ACGACAGGTT ACGCAAACAATTT CACACGCGTC ACTTGGCACT GGCCGTCGTT TTACAACACA 6300 6021 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAAACAA 6300 6021 TCACTCATTA GGCACCCCAG GCTTTACACCT TATGGTTACACT TGACAAAAACA 6300 6021 TCACTCATTA GGCACCCCAG GCTTTACCACT TATGGTTACACT GGACAAAACA 6300 6021 TCACTCATTA GGCACCCCAGC CTCTTACCAGTT ACTTGTACACT GGACAAAACA 6300 6021 TCACTCATTA GGCACCCCCAGC CTCTTACCAGT ACTTGGACCA GGGGATGACC GAACAAACA ACCCTGGCC TATTGTGCCCA GGGGATGACC CAACAGAGC GAACAAACAA GGCCCAGCCACC 6600 6021 TCACTGAGGAT CACCAGAGGC TATTGTGCCA GGGGAATGAC CCAAAGAGAC 6360 6021 CGCCCCAGGGC CAGCC GGGCCAACCAGCC TATTGTGCCA GGGGAATGACC CAACAGAGC CAACAGGCC TACTGAGGAT GGCCCTTTGC CCAACAGGGC CTGCTAAGGGAT AACAAAAAA AATAGACAAAAAA AATAACAAAAAAAAAA
5581 TCGCTTTCTT CCCTTCCTTT CICGLCACG CONTINUES OF THE CON	5581 TCGCTTTCTT CCCTTCCTTT CICGCLACGI LOSS CONTINUES CON	5581 TCGCTTTCTT CCCTTCCTTT CICGLCACG CONTINUES OF THE CON	5581 TCGCTTTCTT CCCTTCCTTT CICGLACGY CONTINUES AND CONTINU	5581 TCGCTTTCTT CCCTTCCTTT CICGLAGG CASTAGGGA CCTCGATCAGC SATON STORM ST	5581 TCGCTTTCTT CCCTTCCTTT CICGLAGG TOGGCA CCTCGACCC AAAAAACTIC 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTTCGGCCTTTTT CGCCCTTTGA 5760 5761 GGGGGTCCC TTTAGGGTTC CGATTTAGTG CTTTGTTCCA ACCGTTCTTT ACCGCTCTTTT ACCGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTCTTGA 5880 5761 CGTTGGAGTC CACGTTCTTT ACCGGGGCA TCTTGTTCCA ACCTGGAACA ACACCATCAA 5880 5761 CGTTGGAGTC CACGTTCTTT ACCGGGGCA TCTTGTTCCA ACCTGGAACA CCACCATCAA 5880 5761 CGTTGGAGTTGCC CGGTTTGCC CGGTTTGCC ACCTTCCAGGG 5940 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTCCA ACCTGGAAA AAACCACCCT GOOO 5821 CCAGGCGGTG AAAGGGCAAACCA CGCTTGCCCG GTGAAAAAAAAAA	5581 TCGCTTTCTT CTCTTCGTTT CTCGLAGG TCGCTTAGGGCA CCTCGACCC AAAAAACTTG 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGGTC CTCTTGATA GACGGTTTTT CGCCCTTTGA 5760 5761 ATTTGGTA TGGTTCACGT AGTGGGCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACCATCAGA 5880 5761 CGTTGGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA CCACCATCAGG 5940 5821 CTATCTCGGG CTATTCTTT GATTTATAAG GGATTTTGCC GATTTCGGAAC TCTCTCAGGG 5940 5821 CTATCTCGGG CTATCCTTT GATTTATAAG GGATTTTGCC GATTTCGAAC TCTCCAGGG 5940 5821 CCAGGCGGTG AAAGGCAACCG CGCGTTGCCCG GTGAAAAAAAA AAACCACCCCT 6000 5821 CCAGGCGGTG AAAGGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGCAGCTGGC 6060 6001 GGCGCCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTTAAT TGTGTGGAA 6180 6011 ACGACAGGTT TCCCGACTGG AAAGGGGGCA ATTGAGCGCAC GGCCGTCGTT TTACAACGTC 6240 6011 ACGACAGGTT TCCCGACTGG AAAGGGGGCA ACGCAATTAAT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACAAAAC 6300 6121 TCACGCAAT ACGCAAACCG CTACCCAAG CCTTTGGACCAATTAAT TTACAACAAAAC 6300 6121 TCACGCAATT GCACTGGCA CTTCTACCCAAG CTTTGGACCAAAAAAAAAA	5581 TCGCTTCTTT CCCTTCCTTT CICGCACGG CAGGGGGCACCCCTGGACCA AAAAAACTIG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGGG CATTTAGGG CAGCCCTGATA GACGGTTTT CCCCCTTTTAGACA 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGACA ACACTCAACA ACACCATCAA 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGACA TCTCTCAGGG 5940 5821 CTATCTCGGG CTATTCTTT GATTATAAA GGATTTTGCC GATTTCGCAAC TCTCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCCAG CGTGGACCAC TCTCTCAGGG 5940 5881 ACAGGCGGTG AAGGGCAAACCAG CGTGTGGCCC GATTAAA TGCAGCTGGAC 6000 5941 CCAGGCGGTG AAAGCAAACCAG CCTCTCCCCG CGCGTTGGCC GGTAAAACAA AAACCCACCCT 6000 5941 CCAGGCGGTG AAAGCAG CCTCTCCCCG CGCGTTGGCC GGTAAAACAA AAACCCACCCT 6000 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCG CGCGTTGGCC GGTAAAACAA AAACCACCCT 6000 601 ACGACAGGTT TCCCGACTGG AAAGCGGGGCA GTGAGCGCAA CGCAATTAAA TGCAGCTGGAA 6120 601 ACGACAGGTT TCCCGACTGG CACACACACAC GGCGGTCCGTT TTACAACACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TATGCTTCA GGCTACATTA AAGTGAAACAA 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACCT GGCAAAAAAAAC 6300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACCT GGCAAAAAAAAC 63400 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACCT GGAAAAAAAC 63400 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTGTACCT GGAAAAAAAAC 63400 6241 GTGACTGGGA AAACCCTGGC AGTCAGGCCT ACTTGTACCA GGCGAATTGTA CCAAAAAAGC 63400 6241 GTGACTGGAA GGCGAAGCC CTCTTACCCGTT ACCGTTACCA GGGGATTGTA CCAAAAAAGC 63400 6241 TAAATTATTC AAAAAAGTTTA CGAGCAAAGGC AGTCAGGAAA AACCCCGCCCCCCCCCC
5521 GTGTGGTGT IACGUCACGU GIGACTATAGTG TÜGCCAGGTT TÜGCCGGTAG GLICIARGIG 5700 5581 TGGCTTTCTT CCCTTCCTTT CTGCTAGTG CTTTAGTG CTTTAGTG CTTTAGTG CTTGACACCCC AAAAAACTTTAGTG 5701 ATTTGGGTGA TGGTTCAGT AGTGGGCCAT GCCCCTGATA GACGGTTTTT CGCCCTTTGA 5760 5701 ATTTGGGTGA TGGTTCAGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA 5760 5701 ATTTGGGTGA TGGTTCAGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCATCAA 5880 5701 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACAACTCAACC 5820 5701 CTATCTCTTT GATTTATAGG GGATTTTGCC GATTTCGGAA CCACCCATCAA 5880 5701 CGTTGGAGTC CACGTTTTTT GATTTATAGG GGATTTTGCC GATTTCGGAA CAACCACCT 66000 5821 CTATCCTTTT GATTTATAGG GGATTTTGCC GGTGAAAAACA CACCCCT 66000 5941 CCAGGCGGTG AAGGGCAATC AGCCTGTGCC CGCGTTGGCC GATTCATTAA TGCAGCTGGG 6060 6001 GGGGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTTGGC 6120 6001 ACGACAGGTT TCCCGACTGG AAAGCGGGCA TTATGCTTCA GGCCCATTTACACT TTATGCTTCC GGCTCGTGT TTACAACCGT 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCTCGTGT TTACAACAGT 6240 6121 TCACTCATTA GGCACCCCAG CTTTACCCCAG TTATGCACT GGCCGTTGTT TACAACAGT 6240 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAG GGCATTACTG TTTACACCCTG TGACAAAAACC 63300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAG TTTACCCCTG TGACAAAAACC 6340 6361 AAGCACTATT GCACTGGCAC TCTTACCCCAGT ACCGTTACTG TTTACCCCTG TGACAAAAACC 6340 6361 CCACCAGGTC CAGCTGCTCG AATCACCATTACTG TTTACCCCTG TGACAAAAACC 6340 6361 CACCACAGTA GGCCATCACCT TCTCTAACGGC TATTGTTCAT AGTTTACACAGG CAAAACCC GGCCAACAGTT ACCGTTACCG ATAACCAAAAAC CAACAGTAACC 6600 6421 CTAGGCTGAA GGCGATGCCTG AATGGCC AAACAGCGAAAT ACCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGCCTG AACGGCCT ACTTTCACAC AAACCGAAAAAC CAACAGTAACC 6600 6541 TAACCACTATA CCGGCTAATGGT ACCACAGAAAAAA ATTTAACAACAAAA ATTTAACAACAAA ACCACCAAAAAAAA	5521 GTGTGGTGGT IACGUCLCATU CONTICCTIT CICCTACCACT TUCCCGUAA GLICARAILE 5700 5581 TCGCTTTCTT CCCTTTCTTT CCCTTTAGTG CTTTAGTG CTTCGACCCC AGCCCTTTGA 5760 5641 GGGGGCTTCTC CTTTAGGGTCT CGATTTAGTG CTTTAGTG CTTCGACCCCTTTGA 5760 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA 5760 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA 5880 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCACCACAA 5880 5701 CGTTGGAGTC CACGTTCTTT AATAGTGGGAC TCTTGTTCCA AACTGGAACA ACACTCAACCS 5821 CTATCTCTGG CACGATACAG CGTGGACCGC TTGCTGCAAC CTCTCCAGGG 5940 5821 CCAGGCGGTG AAGGCGAATC AGCCTGTGCC CGTCTCGCTG GTGAAAAAAC ACACCACCCT 6000 5821 CCAGGCGGTG AAGGCGAATC AGCCTGTGCC CGTCTCGCTG GTGAAAAAAA AAACCACCCT 6000 5941 CCAGGCGGTA ACGCCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTTGGC 6060 6001 GGCGGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTTGGC 6120 6011 ACGACAGGTT TCCCGACTGG AAAGCCGGCC TTTATCTTTACACTGTT TTACAACGTT GCCCAGAGAACA 6180 6121 TCACTCATTA GGCCACCCCAG GCTTTACACC TTTATGCTTCC GGCCTGGTT TTACAACGTC 6240 6121 TCACTCATTA GGCCACCCCAG CGTTTACCCCAG TTTACCCCTG TGACAAAAAC 63300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAG TTTACTCACA GGGATTTACAC CAGGAGAAATA AAAGTGAACAA 6220 6301 AAGCACTATT GCCATGGCCA CTTTACCCCAGT TTATCACCAGT TTACCCCTG TGACAAAAAC 63300 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCCT ACTTGCACCA GGGATTTACACCGTT TCAGCGAACAGAC 6420 6361 TAACCACCAGAACAGTT GCCCTCAGGCCT ACTTGCACCA GGGAATTACAC CAACAGGAACACACACAGTTACCCCTG GGCCTATCGCC CACGCGAGCCGAACACACACACACACACACACACA	5521 GTGTGGTGT IACGUCACGU GIGACTATAGTG TÜGCCAGGTT TÜGCCGGTAG GLICIARGIG 5700 5581 TGGCTTTCTT CCCTTCCTTT CTGCTAGTG CTTTAGTG CTTTAGTG CTTTAGTG CTTGACACCCC AAAAAACTTTAGTG 5701 ATTTGGGTGA TGGTTCAGT AGTGGGCCAT GCCCCTGATA GACGGTTTTT CGCCCTTTGA 5760 5701 ATTTGGGTGA TGGTTCAGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA 5760 5701 ATTTGGGTGA TGGTTCAGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCATCAA 5880 5701 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACAACTCAACC 5820 5701 CTATCTCTTT GATTTATAGG GGATTTTGCC GATTTCGGAA CCACCCATCAA 5880 5701 CGTTGGAGTC CACGTTTTTT GATTTATAGG GGATTTTGCC GATTTCGGAA CAACCACCT 66000 5821 CTATCCTTTT GATTTATAGG GGATTTTGCC GGTGAAAAACA CACCCCT 66000 5941 CCAGGCGGTG AAGGGCAATC AGCCTGTGCC CGCGTTGGCC GATTCATTAA TGCAGCTGGG 6060 6001 GGGGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTTGGC 6120 6001 ACGACAGGTT TCCCGACTGG AAAGCGGGCA TTATGCTTCA GGCCCATTTACACT TTATGCTTCC GGCTCGTGT TTACAACCGT 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCTCGTGT TTACAACAGT 6240 6121 TCACTCATTA GGCACCCCAG CTTTACCCCAG TTATGCACT GGCCGTTGTT TACAACAGT 6240 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAG GGCATTACTG TTTACACCCTG TGACAAAAACC 63300 6241 GTGACTGGGA AAACCCTGGC GTTACCCCAG TTTACCCCTG TGACAAAAACC 6340 6361 AAGCACTATT GCACTGGCAC TCTTACCCCAGT ACCGTTACTG TTTACCCCTG TGACAAAAACC 6340 6361 CCACCAGGTC CAGCTGCTCG AATCACCATTACTG TTTACCCCTG TGACAAAAACC 6340 6361 CACCACAGTA GGCCATCACCT TCTCTAACGGC TATTGTTCAT AGTTTACACAGG CAAAACCC GGCCAACAGTT ACCGTTACCG ATAACCAAAAAC CAACAGTAACC 6600 6421 CTAGGCTGAA GGCGATGCCTG AATGGCC AAACAGCGAAAT ACCATAGGGAT 6540 6421 CTAGGCTGAA GGCGATGCCTG AACGGCCT ACTTTCACAC AAACCGAAAAAC CAACAGTAACC 6600 6541 TAACCACTATA CCGGCTAATGGT ACCACAGAAAAAA ATTTAACAACAAAA ATTTAACAACAAA ACCACCAAAAAAAA	FS21 GTGTGGTGGT TALGUCGLAND GLOCAL TITES TECCCOGGCTT TCCCCTGAAA GALLAAATT STOO STOO STOOL TO THE CONTINUE TO T	5521 GTGTGGTGGT TACGUCCCTT CCCTTCCTTT CTGGCCAGGT TCGCCCGGCTT TCCCCGCAAAAAAAATTG 5700 5581 TCGCTTTCTCCTTT CCCTTCCTTT CTGGCCAGGT TCGCCCTGATA GACGGTTTTC CGCCCTTTGA 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCC ACTCGAACCA 5880 5761 GTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACCA CCACCATCAAC 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAAAC ACCACCATCAAC 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCTGCAAA CCACCATCAAC 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTGGC GGATTCATCA 76000 5821 CCAGGCGCCAAT ACGCCAAACCAG CGTGGCACCGC TTGCTGCAAA AAACCACCCT 6000 5941 CCAGGCGCCAAT ACGCCAAACCAG CCTCCCCG GGCGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6001 GGCGCCCAAT ACGCCAAACCAG CCTCTCCCCG GTGAGCCGCAACTTAAT TGCAGCTGGC 6060 6001 GGCGCCCAAT ACGCCAAACCAG CCTTTACCACT TTATGCTTCC GGCCGTTATAA TGCAGCTGGC 6060 601 GCGCCCCAAGT TCCCCAAG GCTTTACACAT TTATGCTTCC GGCCGTCGTTT TAACAACATC 6240 601 GCGCCCCAAGG ATAACAATTT CACAACGCGTC ACTTGGCACT GGCCGTCGTTT TAACAACAAC 63200 6021 TCACTCATTA GGCACCCCAAG CCTTTACCACT TTATGCCTCCA GGCCGTTTTACACAT TAACAACAAC 63200 6301 AAGCACTATT GCACTGGCAC TCTTAACGGCT ACTTGGCACCT GGCCGTAAAACAA 6420 6301 AAGCACTATT GCACTGGCAC TCTTAACGGCT ACTTGGCACCA GAGCAAAAACAACACACCACGCT ACGTTACTG TTTACCACCTG TAACAAACACACC 6480 6301 AAGCACCACTT CACACCACGCT TATGTGCCCCAA ATAGGGAAAAACAC 65400 6301 AGCACCACACTT GCACCACGCT ACGGCCT ACGTTACTG TTAACACACC CAACACGTAACCACCACCACCACCACACTTACTACTACTACTACACACCAC	5521 GTGTGGTGGT   ACGUGLAGU CITACOCCITC   CONTINUATION   CONTINUAT	5521 GGGGGGGT LCCCTTCCTTT CGCTTACGGT TCGCCGGCTT TCCCCGCCC AAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAACTTG 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAACTTGA 5760 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CCCCCTGATA GACGGATCTT CGCCCTTTGAC 5880 5701 ATTTGGGTGA TCACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACCCATCAA 5880 5701 ATTTGGGTGA CCACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAAC CCACCATCAA 5880 5701 ATTTGGGGTT CACGTTCTTT GATTTATAG GGATTTGCC GATTTCTGGAAC CTCCCCAGGG 5940 5821 CTATCCTTGG CTATTCTTTT GATTTATAG GGATTTGCC GATTCATTAAA TGCAGCTGGC 6000 5821 CCAGGCGGT AAAGCAACCA GCCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 5941 CCAGGCGGT AAGGCAAACCA CCCCCCG CGCTTGGCC GATTCATTAA TGCAGCTGGC 6020 6001 GGCGCCCAAT ACGCAAAACCA CCCCCCCG CGCTTGGCC GATTCATTAAA TGTGAGCTGGC 6020 6001 GGCGCCCAAT ACGCAAACCA CCCCCCG CGCTTGGCC GGCCCGCTCGTTT TTACAACCGTC 6240 6121 TCACTCATTA GGCAACCCCAG GCTTTACCCAAG CTCATGCCCCC GGCCCTCGTTT TTACAACCGTC 6360 6211 TCACTCATTA GGCACCCCAG GCTTACCCAAG CTCTTGCCCC GGCCCGTCGTT TTACAACAGTC 6360 6241 GTGACCTGGAA GCCCCCCAG GCTTACCCCAAG CTTTGTACAT GGAGAAAAAA AAACCAACAGTT CAACGGCCC AACTGGCCCAACCCC GGCCCAACCCC GGCCCAACCCC GGCCCAACCACCC GGCCCAACCCCCAG GCTTACCCAAG CTTTGCCCACC GGCCCGCACC GGCCCAACCACCC GGCCCAACCCCACCC GGCCCCACCC GGCCCCACCC GGCCCCACCC GGCCCCACCC GGCCCCACCC GGCCCCACCC GGCCCCACCCC GGCCCCACCCC GGCCCCACCCC GGCCCCACCCC GGCCCCACCCC GGCCCCACCCC GGCCCCACCCC GGCCCCACCCC GGCCCCACCCC GCCCCACCCC GCCCCACCCC GCCCCACCCC GCCCCACCCC GCCCCACCCC GCCCCACCCC GCCCCACCCCCCCC	5521 GTGTGGTGGT 1ACGLGGABC CLOCACGT TCGCCGGCTT TCCCCGTCAA GLIC HAMACTTG 5700 5581 TCGCTTTCCTT CCCTTCCCTTCCTTT TCGCCGGCTT TCCCGACCCC AAAAAAACTTG 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGAACCA AAAAAACTTGA 5760 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT TCCCTTGCAAC AACTGGAACA ACACCACCATCAAC 5880 5701 ATTTGGGTGA TGGTTCACTT AATAGTGGAC TCCTTGTTCCA AACTGGAAC ACACCATCAACA 5880 5701 CTTGGAGTC CACGTTCTTT AATAGTGGAC TCCTTGCTGCAAC TCTCTCAGGGG 5940 5881 ACAGGATTTT CGGCCTGCTGG GGCAAACCAG GCGTGGACCGC TTGCTGCAAC TCTCTCAGGGG 6000 5881 ACAGGCGGTG AAAGCAAACCG CCTCTCCCCG CGGCTTGGCC GTGAAAAGAA AAACCACCCT 6000 5881 ACAGGCGGTG AAGGGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTTGGC 60120 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG GCGGTTGGCC GATTCATTAA TGTAGGTTAGC 6120 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG GCGGTTGGCC GATTCATTAA TGTAGAGTTAGC 6120 6011 ACGACAGGTT TCCCGACTGG AAAGCGGGCA TTAGGTTACC GGCCTGTATG TTTACAACTATG 6180 6021 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGGTTCC GGCCTGTTTT TTACAACACTC 6240 6181 TTGTGAGCGA AAACCCCTGGC GTTACCCCAAG CTTTTGGCACT GGCCGTCGTT TTACAACAAAACA 63300 6241 GTGACTGGAA AAACCCCTGGC GTTACCCCAAG CTTTTGGACCT GGCCGTTGTTA CTAGTGGAT 6420 6301 AAGCACTGTA GGCGATGCCAAG CTCTTACCGGTT ATTGTGCCCA GGGGATTTATA CTAGTGGATC 6420 6301 AAGCACTGAT GGCCACCCCAAG CTCTTACCGGTT ATTGTGCCCA GGGGATTTATA CTAGTGGATC 6420 6301 AAGCACTGAAA GGCGATGCCAAGGC TCTTACCGGTT ATTGTGCCCA GGGGATTTATA CTAGTGGATC 6420 6301 AGCCCAGAGT CCAACAGTT GCGCAGCCTT ATTGTGCCCA GGGGATTTATA GTTGGTGCTA CCATAGGGAT 65400 6481 TGAGTTAAAA AAACAATTT CCAACAGGGT TACCATTAACAAAAAAACA AACCACCAGGAAGAC CCAACGTTACCC TGCTTACCAGTT ATTTTAACAAAAAAAAAA
5461 ATACUTIGET TACGGCAGC GTGACCGCTA CACTTGCCAG CGCCCGTCAA GCTCTAAATC 5640 5521 GTGTGGTGGTGT TACGGCAGCT TCGCCACGT TCGCCGGCACCC AAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700 5701 ATTTGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTT CGCCCCTTTGA CGGCACCATCAA S880 5761 CGTTGGAGTC CACGTTCTTT AATACTGGAC TCTTGTTCCA AAACGGAACA ACACCTCAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATACTGGAC TCTTGTTCCA AAACGGAACA CCACCATCAA S880 5821 CTATCCTTTT CGCCTGCTGG GGCAAAACCAG CGTGGACCGC TTGCTGCAAC TCTTTCTCAGGG 5940 5881 ACAGGATTTT CCGCTGCTGG GGCAAAACCAG CGTGGACCGC TTGCTGCAAA AAACCACCCT 6000 5941 CCACGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCCC CGCGTTGGCC GATTCATTAA TGCAGCTGAC 60120 6001 GGCGCCCAAT ACGCACAGCG CCTCTCCCCCC CGCGTTGGCC GATTCATTAA TGCAGCTTGAC 60120 6001 GGCGCCCAATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCCCGTGTT TTACAACAGT 6220 6121 TCGACACAGGTT TCCCGACACGCCA CACGCCAAT ACGCCCATT TTACAACAGT 6300 6241 GTGACTGGGA AAACCCCCAG GCTTTACCCATT ACTGCTCC GGCCCGTGGTT TTACAAAAAC 6300 6241 GTGACTGGGA AAACCCCCAG GCTTTACCCATT ACTGCTCC CGCCCTGTGTT TTACAAAAAC 6300 6241 GTGACTAGTT GCACTGGCCT TCTCACCAAG CTTTTACCACT TTATGCTCC CGCCCTGTGTT TTACACAAACA 6300 6241 GTGACTAGTT GCACTGGCCT CTTACCCAAG CTTTTAACCACT TATGTCCCA GGGGATTGTA CACGTGGATC 6420 6301 AAACAATTATT CACACTGGCCT ATTGTCCCAA GGGATTTACTA CTAGTGGATC 6420 6301 AAACAATTATTC AAAAAAGTTTA CGGGCCT ATTGTACCAAAAAA AATTTACCAC CAAAGGGATAACA 6540 6481 TGAGTACATT GGCTAACCCAAGCC TCTTAACCAAACAAAAA ATTTACCAC CAAACGGATA GGCCCTTTCCG GGCCTTTCCGGAGCC CGATACCGCT CAAACCGCAACGCCTT ACTGCAACACAAAAAA ATTTACCAC CAAACGGATA CACGCAACGCCTT ACTGCAACCACAAGCC TTCTTAACCAATCAC CAAACGGATAACACAAAAAAAAAA	5461 ATACGIGGT TACGCCCAGC GTGACCGCTA CACTTGCCAG CGCCCIGAA GCTCTAAATC 5540 5521 GTGTGGTGGTGT TACGCCAGGT TCGCCCACGT TCGCCCGCCCC AAAAAACTTG 5700 5541 GGGGGCTCCC TTTAGGGTTC CACGTTTAGTG CTTTACGGCA CCTCCGACCCC AAAAAACTTG 5700 5541 GGGGGCTCCC TTTAGGGTTC CACGTTAGTG CTTTACGGCA CCCCCTGATA GACGGTTCTT AATACTGGACCA CCACCATCAA 5280 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTCTTAAAC 5880 5761 CGTTGGAGTC CACGTTCTTT AATACTGGAC TCTTGTTCCA AACTGGAAAC ACACCATCAA 5880 5821 CTATCTCGGG CTATCTTTT AATACTGGAC CGTCGACCACA CATCAACA 5880 5821 CTATCTCGGG CTATCTTTT AATACTGGAC CGTCGTGCGC GATTACAACA CCACCATCAA 5880 5821 CTATCTCGGG CTATCTTTT AATACTGGAC CGTCGTGCGC GATTCATTAA TGCAGCTGC 6000 5841 CCAGGCCGGT AAACGCC CCTCTCCCCC CGCCTGTGGCC GATTCATTAA TGCAGCTGCC 6000 6001 GGCGCCCAAT ACCCAAACCG CACCTCTCCCCC CGCCTTGGCC GATTCATTAA TGCAGCTGCC 6000 6001 GGCGCCCAAT ACCCCAGG GATTACACT TTATGCTTCC GACCAAAAACGC CGCCACACACACCC CTCTCCCCCC GCCCTTGGCC GATTCATTAA TGCAGCTGCA 6120 6011 TCACTCATTA GGCACCCCAG GCTTTTACACT TTATGCTTCC GGCCACACATT AACAACGT 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TATGTTCTC GGACAAAAAACGT 6240 6121 TCACCCAAGGT TCCCGACCAG GCTTTACACT TATGTTCTC GGACAAAAACACGC 6240 6121 TCACCCAAGGT CAACGTCC AACACGCT ACTTGACCAT GGCCGAGAAAATA AACACAACGT 6240 6121 TCACCCAAGGT CAACGCT CAACGCCT ACTTGACCAT GGCCACCTG TATGTACACT TACGTACACT TACGTACACT TACGTACACT TACACCCAGG AAAACACCC CAACGTACACCGCT ACACGGT ACCGTACACACGT TACCGTACACC GGGGAATATACCACACACGCT CAACGCTACCAGACACGT TACCGACCACACACACACACACACACACACACACACACAC	5461 ATACUTIGET TACGGCAGC GTGACCGCTA CACTTGCCAG CGCCCGTCAA GCTCTAAATC 5640 5521 GTGTGGTGGTGT TACGGCAGCT TCGCCACGT TCGCCGGCACCC AAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700 5701 ATTTGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTT CGCCCCTTTGA CGGCACCATCAA S880 5761 CGTTGGAGTC CACGTTCTTT AATACTGGAC TCTTGTTCCA AAACGGAACA ACACCTCAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATACTGGAC TCTTGTTCCA AAACGGAACA CCACCATCAA S880 5821 CTATCCTTTT CGCCTGCTGG GGCAAAACCAG CGTGGACCGC TTGCTGCAAC TCTTTCTCAGGG 5940 5881 ACAGGATTTT CCGCTGCTGG GGCAAAACCAG CGTGGACCGC TTGCTGCAAA AAACCACCCT 6000 5941 CCACGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCCC CGCGTTGGCC GATTCATTAA TGCAGCTGAC 60120 6001 GGCGCCCAAT ACGCACAGCG CCTCTCCCCCC CGCGTTGGCC GATTCATTAA TGCAGCTTGAC 60120 6001 GGCGCCCAATTA GGCACCCCAG GCTTTACCACT TTATGCTTCC GGCCCGTGTT TTACAACAGT 6220 6121 TCGACACAGGTT TCCCGACACGCCA CACGCCAAT ACGCCCATT TTACAACAGT 6300 6241 GTGACTGGGA AAACCCCCAG GCTTTACCCATT ACTGCTCC GGCCCGTGGTT TTACAAAAAC 6300 6241 GTGACTGGGA AAACCCCCAG GCTTTACCCATT ACTGCTCC CGCCCTGTGTT TTACAAAAAC 6300 6241 GTGACTAGTT GCACTGGCCT TCTCACCAAG CTTTTACCACT TTATGCTCC CGCCCTGTGTT TTACACAAACA 6300 6241 GTGACTAGTT GCACTGGCCT CTTACCCAAG CTTTTAACCACT TATGTCCCA GGGGATTGTA CACGTGGATC 6420 6301 AAACAATTATT CACACTGGCCT ATTGTCCCAA GGGATTTACTA CTAGTGGATC 6420 6301 AAACAATTATTC AAAAAAGTTTA CGGGCCT ATTGTACCAAAAAA AATTTACCAC CAAAGGGATAACA 6540 6481 TGAGTACATT GGCTAACCCAAGCC TCTTAACCAAACAAAAA ATTTACCAC CAAACGGATA GGCCCTTTCCG GGCCTTTCCGGAGCC CGATACCGCT CAAACCGCAACGCCTT ACTGCAACACAAAAAA ATTTACCAC CAAACGGATA CACGCAACGCCTT ACTGCAACCACAAGCC TTCTTAACCAATCAC CAAACGGATAACACAAAAAAAAAA	5461 ATACGGGCAGC GTGACCGCTA CACTTGCCAG CCCCGTCAGA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGGCAGC GTGACCGCTA CACTTGCCAG CCCCGTCAGA GCTCTAAATC 5540 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACCT TCGCCGGCTT TCCCGCTCAGACCT CAAAAAACTTG 5700 5681 GGGGGCTCCC TTTAGGGTTC CAGTTGAGGTTC CTTTACGGCA CCTCGACCC AAAAAACTTG 5700 5701 ATTTTGGGTGA TGGTTCACGT AGTGGGCCATTGAT CGCCCCTGTTA CACCCATCAA 5880 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCCTGATA GACGGTTTTCCA AACTGCAACC 5820 5701 ATTTGGGGAGTC CACGTTCTTT AATAGTGGAC TCTTTTTCCA AACTGGAAAC CACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTAAAG GGATTTGCC GATTTGGAAAAAAAA CTACTCTACAGC 5940 5881 ACAGGATTT CGCCTGCTGG GGCAAAACCAG CGTGGACCGC TTGCTGCAAA ACACCACCCT 6000 5881 ACAGGACAGGT CCCCGCTTGGC CGCGTTGGCC GATTCATTAAT TGCAGCTGGC 6010 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT TGGAGCTGGA 6120 6001 ACGACAGGTT TCCCGACTGG AAAGCGGGCCA GTGAGCGCA CGCAATTAAT TTGGAGCTGGAC 6120 6011 ACGACAGGTT TCCCGACTGG AAAGCGGGCCA GTGAGCGCA CGCAATTAAT TTGCAGCTGGAC 6120 6021 ACGACAGGTT TCCCGACTGGC ACTTGCC CACTTGGCACT GGCCGTCGTTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6181 TTGTGACTGGGA AAACCCCCAG GCTTTACACT TATGTGCCCA GGGGAATTGAT AAAGTGAAACA 63300 6241 GTGACTGGGA AAACCCTGGCAC CTTTACCCCAAG CTTTTACCCCTT TTACCCCCTT TACAACGGAA 6420 6301 AAGCACTATT GCACTGGCAC CTTTACCCCAAG CTTTTTACCCCTT TACAACGGAA 6420 6301 AAGCACTATT GCACTGGCAC CTTTACCCCAAG CTTTTACCCC TGCAACAGAAAAACC 6320 6301 AAGCACTATT GCACTGGCAC CTTTACCCGTT ACTTGCACCCA GGGGAATTGAC CCAAAGTGCTAC 6480 6421 CTAGGCTGGAA GGCGATGACC CTGCTAAGGCC TCCTTAACCCAAGGAT GCCCCTTTCCC GGCGAAACCGACC GACGAATACCGGTC GATCAAGAAAAAAAAAA	5461 ATACUTICUT CCCTTCCTTT CTCGCCGCTTA CACTTGCCAG CGCCCGTCAA GCTCTAAATC 5540 5521 GTGGTGGTGGTGCTTA CTCGCCGCACGT TCGCCGGGTT CCCCGTCAA GAAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAAACTTG 5760 5761 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTTGATA GACGGGTTTTT CGCCCCTTTAACC 5820 5761 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGGAAA ACACTCAAAC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAAC TCTTGTTCCA AACTGGAAAC ACACCATCAAC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAAC GCTTGCTCA AACTGGAAA ACACCACCATCAAC 5820 5821 CTATCTCGGG CTATTCTTTT GATTTAAAA GGAATTTTGCC CGTTGGCCA AACACAAAAGAA AAACCACCCCT GOOO 5821 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTGTGGCC GTTGATTAAT GGCAACCCCT GOOO 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTGTTGGCC GTTCATTAA TGCAGCTGGC 6000 5941 CCAGGCGGTG AAGGGCAATC AGCTGTTCCCC GCGCTTGGCC GGTTCATTAAT GTGAGGTTAGC 6120 6061 ACGACAGGTT TCCCCCACAGG GCTTTACACT TTATGCTTCCC GGCTGTATG TTTGTTGTGGAA 6180 6121 TCACTCATTA GCCACCCCAG GCTTTACACT TTATGCTTCC GGCCGTCGTT TTTACAACGTC 6240 6121 TCACTCATTA TGCACCCCCAG GCTTTACCACT TTATGCTTCC GGCAGAAAAATA AAGTGAAAACA 6330 6241 GTGACTGGGA AAACCAGTGC GTTACCCCAAG CTTTGTCACA GGGGATATGT TTACAACAGTC 6420 6361 AAGCACTATT GCCACCCCAG GCTTACACCAAT ACGGAAAAAACA CACCCCCAGGGCAACAAAAACAC GGCAATTACAGC TTTACCAAT GGGAAAAAACA CAAGTGCTAC 6420 6361 CGCCCAGGTC CAGCTGCTCG AGTCAAGGCCTA ACTTGGCCCAA GGGGATTATACAG CAAGTGCTAC 6420 6361 CAGCCAGGTC CAGCTGCGCA CTCTTACCGTT ACCGTTTACAC CAAGTGCTAC 65400 6361 CGCCCAGGTC CAGCTGCGCA CTCTTACCGTT ACCGTTTACAC CAACGTACGCT CAGCGACCCGACC	5461 ATACGIGLIC DILGAGGGCAGC GIGACCGCTA CACTIGCCAG CGCCCCGTCAA GCCCTAAATC 5540 5521 GTGGTGGTGGTGGT TACGCGCAGC TCGCCGGCTT CCGCCGGCTT CCGCCGCCTTAAATC 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCCCCGTCAA AAAAAACTTG 5760 5761 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCGCCTTAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAAC ACACCCATCAA 5880 5761 CGTTGGAGGTC CACGTTCTTT AATAGTGGAC CTTTGTTCCA AACTGGAAC ACACCCATCAA 5880 5821 CTATCTCGGG CTATTCTTT GATTTAAAA GGGATTTTGCC GATTTAGAAAAAAAAAA	5461 ATACCIGGT TACGCGCAGC GIGACCGCTA CACTTGCCAG CGCLINGGG GCTCTAAAATC 5640 5521 GTGTGGGTGGT TACCCCGCGCACT TCGCCGGCTT CCCCGGCCC AAAAAAACTTG 5760 5581 TCGCTTTCTT CCCTTCCTTT CTCGCACCGT TCGCCGGCTT CCCCGACCCC AAAAAAACTTG 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTTACGGCAA AACTGCAAACA 5820 5701 ATTTGGGTGGA TGGTTCACGT AGTGGGCCAT CGCCCTTGAA AACTGGAAACA ACACCTAAACC 5820 5701 ATTTGGGTGGA TGGTTCACGT AGTGGGCCAT CGCCCTTGAA AACTGGAAACA ACACCTAAAAC 5880 5821 CTATCTCGGG CTATTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAAACA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTAAAAG GGATTTTCCA AAATAAAAAAAAAA	5461 ATACUIGUT TACGCGCAGC GIGACCGCTA CACTTGCCAG CGCCLIAGOG GCTCTAAAATC 5640 5521 GTGTGGTGTTCTT CCCTTCCTTT CTCGCCACGT TCGCCGGCAT TCCCCGACCC AAAAAAACTTG 5760 5581 TCGCTTTCTT CCCTTCCTTT CCGATTAAGTG TTTTACGGCA CCCCTTGAAACACA 5820 5761 GTTTGGGTGA TGGTTCACGT AGTGGGGCAT CGCCCTTGAAACA AAACACTGC 5820 5761 ATTTGGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AAACTGGAAACA ACACCATCAA 5880 5761 CGTTGGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AAACTGGAAACA ACACCATCAAAC 5820 5761 CTATCTCCGGG CTATTCTTT AATAGTGGAC TCTTGTTCCA AAACTGGAAACA ACACCACCATCAA 5880 5761 CTATCTCCGGG CTATTCTTT AATAGTGGAC CGGTTTGCCG GATTTCGGAAC TCTTCTCAGG 5940 5821 CTATCTCGGG GCAAAACCAG CGGGGGAACGC TTGCTGCAAC TCTTCTCAGG 5940 5821 CTATCTCGGG AAAGGGCAATC AGCTGTTGCC CGGTGTGGCC GATTTCAAAA AAACCACCGCT 6000 5831 ACAGGATTT CGCCTGCTGG GGCAAACCAG CGTGTGGCC GATTTCAAT TGTGTGGAA 6180 6001 ACGACAGGTT ACCCCAAG CCTTTCCCCCG CGCGTTGGCC GATTTCAAT TGTGTGGAA 6180 6051 ACGACAGGTT TCCCGACTGG AAAAGGGGCAA TTAAATTTTTTACAACGTT TTACAACGTT TTACAACAGTT GCACCCCAAG GCTTTACACT TTATGCTCCC GGCTCGTTATG TTACAACAAACA 6360 6181 TTGTGAGGGG AAACCACTGGC GTTACCCAAG CTTTTGTACACT TGCAGAAAAACA 6360 6241 GTGACTCGGAA AAACCACTGGC GTTACCCAAG CTTTTGTACAAC TGCAGAGAAAAACA 6360 6241 GTGACTCGAA AAACCACTGGC AGTCAGGCCT ACTTGGACAC TGCAATTCAAT AGTTGACCCAG CAAGTTGGAAC 6360 6301 AAGCACAGTTT GCACTGGCAC CTCTTACCGTT ACTGTGCCCA GGGGATTGTAC CTAGGGAAT 6420 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC TACTTACAAT AGTTGGACC CAAAGTGGAAC 6360 6301 AAGCACAGTT CAAAACAATT CACCAAGGC TACTTACAAT AGTTGGACC CAAAGTGGAAC 6360 6301 AAGCACAGTTAT CGCCCAGGCT TACCCAAG CTTTACAAT AGTTGGAGC CAAAGTGGAAC 6360 6301 AAGCACACTATT GGCTAAGCCT TCCTTACGGT TCCCGAGCGAT CACGTTACAC 6360 6301 AAGCACAGTTA CGCCCAGCTT ACCGAGAGAAACA AATACAAGAACA CAAGTTAACAC 6360 6301 AAGCACACATTTA AGAAAACTTACCAAGAC AAAGGGAAAAAAAAAA
SHET ATACGRICTC GTCAAAGCAC CTGACCGCTA CACTIGCAG CGCCCTAGCG CCCCCTT 580 5461 ATACGRICTC TACGCGCAGC GTGACCGCTA CACTIGCAG CGCCCCAGCAG CACTAAAATC 5500 5521 GTGTGGTGT TACGCGCAGC GTGACCGCTA CACTIGCAGCCC CAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTGCCCACGT TCGCCGGCAT CTCGCCCCCAGCA GAAAAAACTTG 5700 5581 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTGACCCCC AAAAAAACTTG 5700 5581 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGGAACCACACCAC	5461 ATACGTGTGT TACGCCAGC GTGACCGCTA CATTGTCCAG CGCCCTAGCG CCCCTCTT 5580 5521 GTGTGGTGGT TACGCCAGC GTGACCGCTA CACTTGCCAG CGCCCTAGCG CTCTAAATC 5540 5521 GTGTGGTGGT TACGCCAGC GTGACCGCTA CACTTGCCAGCAG CTCTAAATC 5540 5521 GTGTGGTGGT TACGCCAGC GTGACCGCTA CACTTGCCAGCCCC AAAAAAACTTG 5700 5521 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCTA CCCCGACCCC AAAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGATA CACACTCAACC 5820 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCCAT CGCCCTGGTA AACGGGACA ACAACTCAACC 5820 5701 ATTTGGGTGC CACGTTCTTT AATAGTGGGAC TCTTGTTCCA AACTGGAACA ACAACTCAACC 5820 5701 CGTTGGAGC CACGTTCTTT GATTTATAAG GGATTTTGCC GATTTCGGAA CCACCATCAA 5880 5701 CGTTGGGGC CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGGAA CACACCACCT 6600 5821 CTATCCTGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GGTGAAAAAAC ACAACCACCT 6600 5881 ACAGGACTTT GCCCGAGGGG AACCCGCCCCCG CGCGTTGGCC GATTCATTAA TGCACCTGGC 6060 5941 CCAGGCGGGA AAGCCGATC ACCCTGTCCCCG CGCGTTGGCC GATTCATTAA TGCACCTGGC 6060 5941 CCAGGCGGTA ACGCCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCACCTGGC 6060 6011 ACGACCAGATT TCCCGACTGG AAAGCCGGCC ATTACCCTTGGT TTACAACCTT TACACCTGGT TTACAACCTA TTAGTGGAACA 6380 6121 TCCTCATTA GGCCCCCAG GCTTTACCAC TTTATGCTCC GGCCTGTGTT TACAACCTA 6240 6121 TCCTCATTA GGCCCCCAG GTTTACCCCTAG TTTACCCCTG TGTACACACAC 63300 6241 GTGACTGGGA AAACCCTGGC GTTTACCCCAGT ACCGTTACTG TTTACACCGTG TGACAAAAAC 63300 6241 GTGACCAGAGC CTTCTCACAGCCT ACTTGCCCCA GGGGATTTACCCCTG TGACAAAAAC 63300 6361 CGCCCAGGTC CAGCTGCTCG AAGCGCCT ACTTCACA GGCCTACCGAC GGGGATTTACCCCTG TGACAAAAACC 6420 6301 AAGCACTATT GCCCTGCCCAG GGCCTATGGCC CACCAGAACACAC ATAACCACCAC 6480 6421 CTAGGCTGAA GGCCATCCTG AGCCTT ACCGTTACCG TCCCAACAGTTA CCATAGGGAT CACCAGAACACACACACACACACACACACACACACACAC	SHET ATACGRICTC GTCAAAGCAC CTGACCGCTA CACTIGCAG CGCCCTAGCG CCCCCTT 580 5461 ATACGRICTC TACGCGCAGC GTGACCGCTA CACTIGCAG CGCCCCAGCAG CACTAAAATC 5500 5521 GTGTGGTGT TACGCGCAGC GTGACCGCTA CACTIGCAGCCC CAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTGCCCACGT TCGCCGGCAT CTCGCCCCCAGCA GAAAAAACTTG 5700 5581 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTGACCCCC AAAAAAACTTG 5700 5581 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGGAACCACACCAC	SHELL ATACGTICTC GTCAAAGCAA CCATAGTACG CGUCUTGIANG CGCCCTTAGCG CCCGCTCCTT 5580 5581 GTGTGGTGTATACGCGCAGC GTGACCGCTA CACTTGCCAGC CTCCGACCAA GCTCTAAAATC 5540 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCGGCTT TCCCCGTCAA GCTCTAAAATC 5700 5581 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA GCTCTGACCCC AAAAAAACTTCAACC 5820 5701 ATTTGGGTAC CGCCTTCTT AATACTGGACCAT CGCCCCTGATA ACACTCAACC 5820 5701 ATTTGGGTCA CGCCTCTTT AATACTGGACCA TCTTGTTCCA ACTGGACCA ACACCACCA 5880 5701 ATTTCCGGG CTATTCTTT GATTTATAGG GCATTTCCC GGCCTTTTCGCAAC ACACCACCA 5880 5701 CTATCTCGGG CTATTCTTT GATTTATAGG GCAATTTCCC GTTGCTAACA ACACCACCA 5880 5701 CCAGGCGGTG AAGGGCAAACCAC CCTGCTCCCCG CGCGGTGCCG CTTTCCTCAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAC CGTGGACCGC TTTCCTGCAAC ACACCACCTG 6000 5941 CCAGGCGGTG AAGGGCAACCAC CCTCTCCCCG CGCGTTGGCC GATCATTAAA TGCAGCTGGC 60600 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATCATTAAA TGCAGCTGGC 60600 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATCATTAAA TGCAGCTGGC 60600 6021 TCACTCATTA TGCACCCCCAG GCTTTACACCT TTATGCTTCC GGCTCGTTGT TTGTTGGAAAAACA 6180 6121 TCACTCATTA TGCACCCCCAG GCTTTACCCAAC GGCTCGTATG TTGTTGTTGGAA 6180 6121 TCACTCATTA TGCACCCCCAG GCTTTACCCAAC GGCTCGTATG TTGCTGGAAAACA 6360 6241 GTGACTGGAA AAACCCTCGGC GTTACCCAAG GTGAGCCAACTTACTG TTACCCACTT TACACACTTTACCACT TTATGCTTCC GGGAAAACAC 63600 6241 GTGACTGGAA AAACCCTCGGC GTTACCCAAG CTTTTACCACT TTATGCTTCC GGGAATTTAC ACTGGACACAACG CAAGTGCACCAAG GACCACAAG GTGAGCACAAG CCCCAAGGCAAACACACGTT GCCCAAGGCAA ACGCCACAGGT GACCACAAGGT GACCACAAGGCAACAAGTTTAACCACT TATACCACT ACTTGACCACA GCCCCAAGGACAACACGT GACCACAAGGT GACCACAAGGT GACCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGT ACCCACAAGGCAAAGACACACACAGTT GCCCAAGGCCAAGACACACACAGTT GCCCAAGGCAAAGCCACACACAGTT GCCCAAGGCAAAGACACACACAGTT GCCCAAGGCAAAACACACACAGTT GCCCAAGGCCAAGACACACACAGTT GCCCAAGGCAAAGACACACACAGTT GCCCAAGGCAAAACACACAGTT ACCCACACAGTT GCCCACACAGGT TACCACACCAC	5461 ATALOGICIC GITCAAAGCAA CCATAGTACG CGCCCTGTTGCCAG CCCCTAGCG CCCCCTCCTT 5580 5521 GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCAAA CCTTAAATC 5540 5521 GTGTGGTGGT TACGCCAGCGTA CACTTGCCAGCCC ACAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTGGCACCC TTTACGCAGCCC ACAAAAAACTTG 5700 5641 GGGGCTCCC TTTAGGGTTC CACTTTAGTG CTTTACGGCA CCCCATCAACC 5820 5761 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA ACAGCGAACCA ACACTCAACC 5820 5761 CGTTGGAGTC CACCGTTCTTT AAATAGTGGAC TCTTGTTCCA AACTGGAACCA ACACTCAACC 5820 5761 CGTTGGAGTC CACCGTTCTTT AAATAGTGGACCCG TTGCTGCAAC TCTCTCCAGAA CCACCATCATCACC 5820 5761 CGTTGGAGTC CACCGTTCTTT AAATAGTGGACCGC TTGCTGCAAC TCTCTCCAGGA 5940 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGAAA CACCACCATCAGCGC 5940 5821 CCAGGCGCCCAAT ACCGCAAACCAC CCTCGCCGC GCGTTGGCC GTGAAAAGAA AAACCACCCT GCGCGCCCAATTAAT TGGAGCTGGC 6060 5841 CCAGGCGCCCAAT ACCGCAAACCAC CCTCCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGGC 6060 6061 GCGCCCCAAT ACCGCAAACCAC CCTCCCCCG CGCGTTGGCC GATTCATTAA TGGAGCTGAAACAG 6120 6061 GCGCCCCAAGT TCCCGACTGG AAAGCGGGCA TTATGCTTCC GGCCGTCGTTT TTACAACGTC 6240 6121 TCACTCATTA GGCACCCCAGG CCTTTACCAC TTATGCTTCC GGCCGTCGTT TTACAACGTC 6240 6121 TCACTCATTA CGCCACAGGC TCTTACCGTT ACTGCACCT TTACCGCTT TTACAACGTC 6480 6121 TCACTCATTA CGCCACAGGC TCTTACCGTT ACCGTTACTG TTTACCACCTG TGACAAAACCA 6300 6241 GTGACTGGGA AAACCCTGGC TCTTACCGTT ACCGTTACTG TTTACCACCTG TGACAAAACCA 6300 6301 AAGCACACTATT GCACTGGCAC TCTTTACCGTTACTG TTTACCACCTG TGACAAAACCA 6300 6301 AAGCACCACTT CACACGCTT CCCCAAGCCT AGGCCTACGGAC CAACGGGACC 66400 6301 AAGCACCACTT CACACGCTT GCCCAAGGC TACGGTTACTG TTTACCACCTG TTACACGCTACCGTT CCCAACACGTT ACCGTTACTG TTTACCACCTGTTTTACACTTCAACCTCACCACCACCGGACC 66500 6301 AGCACCCACGAGC AGCCCCAAGGC TTTCTTACACAC TTTCTTACCGCTT TTTACCACCTTTCCACC CAACCGTTACCG CAACCGCACC 66500 6481 TCACTCCACACGTT CACACGCTT CACACCACGAAAAAAAAAA	5461 ATACGTGCTC GTTAAAGCAA CCATAGTACG CGCCTTGCCAG GGCCTTAGCG CCCGCTCCTT 5840 5521 GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCCAG GCCCTAGAGC GCCCTTAAATC 5540 5521 GTGTGGTGGT TACGCGCACCG TTCGCCACCGT TCCCCGTCCAA GCTCTAAATC 5540 5521 GTGTGGTGCT CCCTTTCCTTT CTCCCTTCCTTT CTCGCCACCG AAAAAACTTG 5760 5641 GGGGCCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCCCGACCG AAAAAACTTG 5760 5641 GTGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCCCGAACCACCATCAACC 5820 5761 GGTTGGAGTC CACGTTCTTTT GATTTATAAG GCATTTCCA AACTGGAAAC ACACCTCAACC 5820 5761 CGTTGGAGTC CACGTTCTTTT GATTTATAAG GGATTTTCC AACTGGAAA CCACCATCAAC 5820 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTCC GATTTCGGAAA CACCACCATCAAC 5820 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCATAA GGAGCTGGC 6060 5821 CCAGGGGTG AAGGCCAATC AGCCTGTTGCC CGTCTCGCTG GTGAAAAAGAA AAACCACCCT 6060 5821 CCAGGGGTG AAGGCCAATC AGCCTGTTGCC CGTCTCGCTG GTGAAAAAGAA AAACCACCCT 6060 6061 ACGACAGGTT TCCCGACTGG AAAGCGGCCA GTGAACCAA CCAATTAAT GTGAGCTGGC 6020 6061 ACGACAGGTT TCCCGAACCAA CCCACTTTCACCT TTATGCTTCCAA TTATGTGTGGAAACCA 6520 6061 ACGACAGGTT CCCGACCAG CCTTTCACCGT TTACACT TGAACAACTT CACACGGCT 6240 6121 TCACTCATTA GGCACCACAATT ACACGCTGCAAC ACACAATTAACACGTC 66240 6121 TCACTCATTA GGCACCACACTT GCACAGGGT ACCGATTAACACGTC CACAGGAAACCA 65360 6241 GTGGCTGGGA AAACCACCACT GCTTACCGTT ACCGTTTACACT TTATGCTTCAA AAGTGAAACA 65300 6241 GTGGCTGGGA AAACCACACTT GCACAGGGCT ACTTGTGCCCA GGGGATTGTA CCATAGGGAT 65400 6301 AAGCACTATT GCACTGGCCAC TCTTACCGTT ACCGTTAACAA TTTATCCGTA CCATAGGGAT 65400 6421 CTAGGCTGGAA GGCGGTTGGCC GTGCATTAGAC AAACCAGGTA 65400 6421 CTAGGCTGAA GGCGGTTAGCC CTGCTAAGGCC TACAGTTAACAATT TTCCTGGGGAAACCACACGTAACC 6780 6541 TAAATTATTC AAAAACGTTTAACAGTTTA CAGGCTAAGCC GAAGGGCCTAAGCC 6780 6541 TAAATTATTC AAAAAAGTTTA CAGGCAAGGCT TCTAACACAGTT TCCGGGCAACCACGGAACCACGGAACCACGGAACCACGGAACCACGGAACCACGGAACCACACGTT TCCAGGCAAGACT TCCACACAGTT TAACAACAAC ATTACTCAGA AAACCACACGTT TCCAGGAAACAAATTTTTTTTTT	5461 ATACGTGCTC GTCAAAĞCAA CCATAGTACG CGCCCTTGCCAG GGCCCTAGCGC GTCCTAAATC 5580 5521 GTGTGGTGGT TACGGCGCAG GTGACCGCTA CACTTGCCAG GGCCCTAGAG GCCCTAAATC 5540 5521 GTGTGGTGGT TACGGCACGC GTGACCGCTA CACTTGCCAG GCCCTAGAGCCC AAAAAACTTG 5700 5541 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTAG 5760 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCCTTGAA 5820 5761 CGTTGGAGTC CACGTTTCTTT GATTTATAAG GGATTTTCCA AACTGGAAA ACACTCAACC 5820 5761 CGTTGGAGTC CACGTTTCTTT GATTTATAAG GGATTTTCCC GATTTCAGGAA CCACCATCAGA 5840 5821 CTATCTCGGG CTATTCTTT GATTTATAAG GGATTTTCCC TGCTGCAAAAAAAAAA	5461 ATACGTGCTC GTCAAAGCAA CCATAGTACG CGCCCTAGCCG GCCCGCTCCTT 5840 5521 GTGTGGTGGT TACGCGCAGC GTGACCGCTA CCTCTGCCAG GCCCTCAGCG CCCGCTCCTT 5850 5521 GTGTGGTGGT TACGCGCAGC GTGACCGCTA CCTCTGCAAGCCCTTAGAGC 5700 5521 GTGTGGTGCTCCCTTT CTCCTTT CTGGCCCACGT TCGCCGGCTT TCCCCGACCCC AAAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCCGAACCC AAACACTCAACA 5880 5761 CGTTGGGGTC TACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACCCACCAA 5880 5761 CGTTGGGGTT CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAACA ACACCCACCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAG GGATTTTGCC GATTTCGGAAC CCACCACCAA 5880 5821 CTAGCTCGGG CTATTCTTTT GATTTATAG GGATTTTGCC GTTGGAAAAGAA AAACCACCCT GOOD 5881 ACAGGGATTTT CGCCTGCGAATC AGCTGTTGCC GCTCTCGCTG GTGAAAAGAA AAACCACCCT GOOD 5941 CCAGGCGTA AAGGCAATC AGCTGTTGCC GCGCTTGGCC GATTCATTAAT TGCAGCTGGC 6060 5941 CCAGGCGTT TCCCGAAACCA GCTGTTGCC GCGCTTGGCC GATTCATTAAT TGCAGCTGGC 6060 6061 GGCGCCCAAT ACGCCAAACCAC AGCTGTTACACCT TATTGTTTAAA TGCAGCTGGC 6060 6061 GGCGCCCAAT ACGCCAAACACAT CACACCTTTACACCT TATTGTTTAAA TAGTGTGCC 6060 6071 GGCGCCCAAT ACGCCAAACACACT TCACCCAAC TATTGCTGCCA GGCCGCTGTTTTAAAAC AAGCACCACCT 6070 6081 TCACTCAGTA GGCACCCCAG GCTTACCCCAAC TATTGTTACAACTTAAT TACAACCTGGC 6420 6121 TCACTCAGTA GGCACCCCAG GCTTACCCCAAC TATTGTACAT GGAGGAAAAAAA AAACCACCCC 6320 6241 GTGACTGGGA AAACCCCTGGC GTTACCCCAAC TATTGTACAAC TAGGGAAAAAAAA AAACCACCCC 6320 6301 AAGCACTATT GCACTGGCC GTTACCCAAG CTTTTGTACAAT AGGTTACAGCTTA CCAAAAACC 63300 6321 GTGACTGGGA AAACCCTGGC GTTACCCCAAG CTTTTGTACAAT AGGTTACAGC CAACAAAAAC 63200 6321 GTACGCCCAATTA GCACTGGCA CTTTACCGTTT ACTGTTACAAC TATTGTGCCCA GGGAATTGTA CCAATTACAGCA CAACAAAACAC 6320 6321 AAGCACTATT GCACTGGCA AGGCCAGGCT ACCGTTACACGT TATTGTACAAC ATTTACAACCTTTCCCGG 65600 6321 TAAAATTATTC CAACAGGCTT GGGCAACCCCTG AATTTACAACAACAC 6320 6321 GTCGTCCCT CAAACTGGCA AGGCCTGGAACAGGC TTACAGAGCAC AAACCATTACCGGCA AAACCACAGGTTACGGCA AAACCACAGGAACAGCACAACAGAACAG
ATTCCTTTA ATCGGCCTC 1911AGTLC CCCCTGTAG CGGCCTATAGA AGCGLGGCUS 25461 ATACGTGCTC GTCAAAGCAA CCATAGTAGTAC CGCCCTAGCG CCCGCTCTT 15580 5541 ATACGTGCTC GTCAAAGCAA CATAGTACA CACTTGCCAG CGCCCTAGCA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCGACT TCCCCGGTAA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCGACT TCCCCGGTAA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCGACT TCCCCGCACCA AAAAAACTTG 5760 5541 GGGGGCTCCT TTTAGGGTTC CGATTTAGTG CTTTACGGCAA CCTCGACCAC AAAAAACTTG 5760 5541 GGGGGCTCCC TTTAGGGTTC CACTTAAATC CTTTATACGCAA CCTCGACCAC AAAAAACTTCAA 5580 5761 CGTTGGGAGTC CACCGTTCTTTT AATAGTGGAAC TCTTGTTCCA AACTGGAAC TCTCTCAGGG 5940 5761 CGTTGGGAGTC CACCGTCTTTTT AATAGTGGAAC CGCCCTGCAAC CACCATCAA 5880 5821 CTATCTGGGA CTATTCTTTTT AATAGTGGAAC CGTCTGGGAACAAC TCTCCAGGG 5940 5821 CTATCTGGG CTATTCTTTTT AATAGTGGAAC CGTCTGGGAACAAC TCTCCAGGG 5940 5821 CTATCTGGGA CTATTCTTTTT AATAGTGGAAC CGTCTGGGAACAAC TCTCCAGGG 5940 5821 CTATCATTAA GGGAAAACAC CCCCTGTTGGC CGTCTCGGT GTGAAAAAGAA AAACCACCCT 6000 5841 CCAGGGCCCAAT ACGCAAAACAC CACCTGTTGCC CGTCTCGGT GTGAAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAAACAC CACCTGTTGCC CGTCTCGGC GGCATTAAAT GCAGGTGGA 6120 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCC CGCGTTGGCC AATTCATTAA GTGAAGTTAAC 6120 6001 GGCGCCCAAT ACGCAAATT CACAAAACCG CCTCTCCCCC CGCGTTGGCC AATTCATTAA GTGAAGTTAAC 6120 6121 TCACTCATTAA GGCAACCCTGG GTTTACCCAAAT TCACAACTTAACATT TATGTGCACCTATTAA GTGAAAACCAC 6240 6121 TCACTCATTAA GGCAACCCTGG GTTTACCCAAACTT TATGTGCACTCGATT TTACAACTGATT TACAACCGAACTTT TACAACTGAACACGT CACCGAACTGAACACGT TACCCAAACTT ACCGTTAACCTT ACCGTTACTTAA TGAACACACACGT TACCCAAACGT ACCGTTACCCAAACACGT ACCGTACACACTT TACAACCACCCT ACCGAACACACTT ACCGTTACACCT ACCGTACACACT TACCGTACACACACTACGAC CCTCTCAACACTT ACCGTTACACACACACACACACACACACACACACACACAC	3401 AATCCCTTTA ATCGGCCTC 1911AGCLC CGCCTGTAGC CGGCCTAGCA GCGCGCTCST 2580 5461 ATACGTGCTC GTCAAAGCAA CCATAGTAGC CACTTGCCAG CGCCCTAGCA GCTCTTCT 2580 5521 GTGTGGTGGT TACGGCGAGC GTGACCGCTA CACTTGCCAG CGCCCTGTAAA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGGCGAGC GTGACCGCTA CACTTGCCAG CCCGCCTAGCA GCTCTAAATC 5540 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACCT TCGCCAGCTT TCCCCGGACCCC AAAAAACTTTG 5770 5581 GGGGCTCCC TTTAAGGTTC CACTTAGCTA CACTTGCCAA GCTGGACCCC AAAAAACTTTG 5770 5581 GGGGGCTCCC TTTACGGGAGTTC CACTTGATTCCA ACTTGGAACA ACACTCAAC 5820 5761 CGTTGGAGTC CACCGTTCTTTT AATAGTGGAC CGCCCTGCATA GACGGTTTTT CGCCAAC TCCACACTAA 5880 5761 CGTTGGAGTC CACCGTTCTTTT AATAGTGGAC CGCCCTCCAA GACGACTTTCAA 5880 5821 CTATTCGGAG CTATTCTTTT AATAGTGGAC CGTCTGCGC GTGAAAAAAAA AAACCACCCT 6000 5881 ACAGGATTTT CGCCTGCTGG GGCAAAACCAG CGTGTGGCC GTGTAAAAAAAA AAACCACCCT 6000 58941 CCCAGGCCCAAT ACGCAAAACCG CCTCTCCCCCG CGCGTTGGCC GGTAAAAAAAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCCG CGCGTTGGCC GGCAATTAAA TGCAAGCTGGC 6000 6001 GACGACCAGTT TCCCGACTGG AAAACCGGCC TATACCATAA GGCACCTGATTT TTATGCTTAAAATTAAA TTATAA GTGAAGTTAAC 6120 6012 TCACTCATTAA GGCAACCAATTT CACACCGCGTC ACTTGGCACTCGTATT TTATGAACTATAA GGCAACACGTC 6240 6121 TCACTCATTAA GGCAACATTT CACACCGCGTC ACTTGGCACTCGTATT TTACAACCGTC GCCCAAGTT TACAACCGTC 6240 6121 TCACTCATTAA GGCAACCCCAGG GTTAACCCAAAGC TATACATTAA GTGAAGAAAAA AAACCCACGC GCCAATTAACATTAA ACGATCAATTA ACGAAAACCAC GCCCAAGTT TACAACTACGTC ACCTTAACCGTT ACCGTTAACCTTAACATTAA GGCAAAAAATA AAACCACCCCAGCAC TCTTAACCGTT ACCGTTAACCAACACGT GGCCCTAGGAAAAAATA AAACCACCACACTAGGACCCTAACCGGAC ACCACACAGTT ACCGTAACCACACGTA GCCCAAGGTC GACCACAACGTA ACCGTACCGAC CTTTAACCGTA ACCGTAACCACCTAGGAAAAAAAAAA	ATTCCTTTA ATCGGCCTC 1911AGTLC CCCCTGTAG CGGCCTATAGA AGCGLGGCUS 25461 ATACGTGCTC GTCAAAGCAA CCATAGTAGTAC CGCCCTAGCG CCCGCTCTT 15580 5541 ATACGTGCTC GTCAAAGCAA CATAGTACA CACTTGCCAG CGCCCTAGCA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCGACT TCCCCGGTAA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCGACT TCCCCGGTAA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCGACT TCCCCGCACCA AAAAAACTTG 5760 5541 GGGGGCTCCT TTTAGGGTTC CGATTTAGTG CTTTACGGCAA CCTCGACCAC AAAAAACTTG 5760 5541 GGGGGCTCCC TTTAGGGTTC CACTTAAATC CTTTATACGCAA CCTCGACCAC AAAAAACTTCAA 5580 5761 CGTTGGGAGTC CACCGTTCTTTT AATAGTGGAAC TCTTGTTCCA AACTGGAAC TCTCTCAGGG 5940 5761 CGTTGGGAGTC CACCGTCTTTTT AATAGTGGAAC CGCCCTGCAAC CACCATCAA 5880 5821 CTATCTGGGA CTATTCTTTTT AATAGTGGAAC CGTCTGGGAACAAC TCTCCAGGG 5940 5821 CTATCTGGG CTATTCTTTTT AATAGTGGAAC CGTCTGGGAACAAC TCTCCAGGG 5940 5821 CTATCTGGGA CTATTCTTTTT AATAGTGGAAC CGTCTGGGAACAAC TCTCCAGGG 5940 5821 CTATCATTAA GGGAAAACAC CCCCTGTTGGC CGTCTCGGT GTGAAAAAGAA AAACCACCCT 6000 5841 CCAGGGCCCAAT ACGCAAAACAC CACCTGTTGCC CGTCTCGGT GTGAAAAAGAA AAACCACCCT 6000 6001 GGCGCCCAAT ACGCAAAACAC CACCTGTTGCC CGTCTCGGC GGCATTAAAT GCAGGTGGA 6120 6001 GGCGCCCAAT ACGCAAAACCG CCTCTCCCCC CGCGTTGGCC AATTCATTAA GTGAAGTTAAC 6120 6001 GGCGCCCAAT ACGCAAATT CACAAAACCG CCTCTCCCCC CGCGTTGGCC AATTCATTAA GTGAAGTTAAC 6120 6121 TCACTCATTAA GGCAACCCTGG GTTTACCCAAAT TCACAACTTAACATT TATGTGCACCTATTAA GTGAAAACCAC 6240 6121 TCACTCATTAA GGCAACCCTGG GTTTACCCAAACTT TATGTGCACTCGATT TTACAACTGATT TACAACCGAACTTT TACAACTGAACACGT CACCGAACTGAACACGT TACCCAAACTT ACCGTTAACCTT ACCGTTACTTAA TGAACACACACGT TACCCAAACGT ACCGTTACCCAAACACGT ACCGTACACACTT TACAACCACCCT ACCGAACACACTT ACCGTTACACCT ACCGTACACACT TACCGTACACACACTACGAC CCTCTCAACACTT ACCGTTACACACACACACACACACACACACACACACACAC	AATCCTTTTA ATCGGCCTCC IGITIAGCLE CGCCTTGTAG CGGCGCGCTCTT 3520 5461 ATACGTGCTC GTCAAAGCAA CCATAGTAGC CGCCTTGTAG CGCCCGGCTCCTT 5580 5521 GTGTGGTGGT TACGGCAGC GTGACCGCTA CACTTGCCAG CGCCCTCAAGTG CGCCCGGCCCCTCGTCCTT CTCGCCAGCCC AAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT CGCCCGGCCC AAAAAAACTTG 5700 5581 GGGGGCTCCC TTTAGGGTTC CGACTTTAGTG CTTTACGGCA CCCCGTCCTTTAA 5760 5581 GGGGGCTCCC TTTAGGGTTC CGCACTTTAGTG CTTTACGGCA CCCCGTCTTTA 65760 5681 GGGGGCTCCC TTTAGGGTTC CGCTGATTAGTG CTTTACGGCA CCACGATCAAC 5820 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCAACCATCAA 5880 5701 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA ACCTGAACA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTT AATAGTGGAC TCTTGTGCAAC TCTCTCAAGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAAGGG 5940 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTCTCAAGGG 6940 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCCG CGCGTTGGCC GATTCATTAAT TGCAGCTGGC 6000 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCCG CGCGTTGGCC GATTCATTAAT TTGGAGCTGGA 6120 6121 TCACTCATTA GGCAACCG CCTCTCCCCCG CGCGTTGCC GATTCATTAAT TTGGTGGAAA 6120 6181 TTGTGACTGGGA AAACCAACTG CCTCTCCCCG CGCGTTGCC GATTCAATTAAT TTGCAGCTGGA 6320 6181 TTGTGACTGGGA AAACCAACTTT CACACCCCGTC ACTTGGCACT GGCGGTGGTT TTACAACGTC 6240 6181 TTGTGACTGGGA AAACCAACTTT CACACCCCGTC ACTTGGCACT GGCGGGTGTT TTACAACGTC 6320 6241 GAACTAATT GCACTGGCA CTCTTACCCTAACGTT ACCGTTACCG TGGGAAAACAA AAGTGAAAAAACA 63300 6241 TCACTGGAA GGCGATGACC TCTTACCCCTAACGGCC ACTTGGCAACCAACGAATTAACATTTACACCT TATTCCCCTTACCGGAACAACAACGAACAACAACAACAACAACAACAACA	3401 AATCCTTTTA ATCGGCCTCC IGITAGCLE CGCCTTGTAG CGGCGCGCTCTT 3520 5461 ATACGTGCTC GTCAAAGCAA CCATAGTAGC CACCTTGCAG CGCCCCGGCTCCTT 5580 5521 GTGTGGTGGT TACGGCAGC GTGACCGCTA CACTTGCCAG CGCCCTCAGCG CCCCCTCAAATC 5540 5521 GTGTGGTGGT TACGGCAAGC GTGACCGCTT TCGCCAGCCC AAAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGCTAAGTG CGCCCTGATA GACGGTTTTT CGCCCACCC AAAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CAGTTGAGTG CCCCTGATA GACGGTTTTTT CGCCCACCC AAAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CAGTTGAGGC CTTTACCGCAA CCCCATCAAC 5820 5701 ATTTGGGTAG CACGTTCTTT AATAGTGGAC TCTTTTCCA AACTGGAAAC ACACCAATCAA 5820 5701 ATTTGGGTAG CACGTTCTTT AATAGTGGAC TCTTTTTCCA AACTGGAAAC ACACCAATCAA 5820 5701 ATTTGGGTAG CTATTCTTTT GATTTTTATAAG GGATTTGCC GATTTCGAAC TCTTCTCAGGG 5940 5821 CTATCCTGGG TATTCTTTT GATTTTATAAG GGATTTGCC GATTTCGAAC TCTTCTCAGGG 5940 5821 CTATCCTGGG AAAGCGAAACCAG CGTGGACCGC TTGCTGCAAC TCTTCTCAGGG 5940 5821 CCACGGCGGT AAAGCACC CCCCCCCCCCCCGTCTGCGC GATTCATTAA TGCAGCTGGC 6000 5821 CCACGGCGGT AAACCACCCCCAG GCCTTTGCC CGCCTTGGCC GATTCATTAA TGCAGCTGGC 6010 6061 AGCGCCCCAAT ACGCAAACCG CCTCTCCCCC CGCCTTGGCC GATTCATTAA TGCAGCTGGC 6010 6061 AGCGCCCCAAT ACGCAAACCG CCTCTCCCCCG CGCGTTGGCC GATTCACTTAA TGGAGCTGAAC 6120 6121 TCACTCATTA GGCACCCCAG GCTTTACACT TTATGCTTTC GGCAGTTGAT TTACAACGT CACCACCGTC ACTTGGCACT GGAGAAAAAAA AACCACCCCCAGGC CCCCTTCCCCACCGCCCCAGGTC CACTGGCACCAGGT TTACAACCT TACACCCCAGCGC ACTTGGCACCAGGT TTACAACCT TACACCCCAGCGC ACTTGGCACCAGGAAAAAAAACA 63300 6241 GTGACTGGGA AAACCACGTC CTTAACCCCAAG CTTTTACCCCCTG GGGGAATTGAAC CAACGAAAAAAACA 63300 6241 GAACTAATT GCACTGGCAC CCTTAACCCAACGT ACTTGGCACCAG GGGGAATTCAAC AAAAAAAAAA	5401 AATCGCTTTA ATGGGCCTCC IGIIIAGULG CGCCTTGTAG CGGCGCATTA AGGGGGCGCGCGCGCGCGCGCTGCGGCGCGCGCGCGCGCG	5461 AATCCCTTTA ATCGGCCTCC IGITIAGE CGCCTTGTAG CGGCGCATTA AGCGCGCGCTCGT 5280 5461 ATACGTGCTC GTCAAAGCAA CCATAGTAG CACTTGCCAG GGCCCTAGGG CCCGCTCCTT 5580 5521 GTGTGGTGGT TACGGCAGC GTGACCGCTA CACTTGCCAG GGCCCTAGGG CCCCCTTAAATC 5640 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCGCCTA CACCTGGCTT CCCCGCTCTTGA 5760 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCGCACCT CCCCCTAGAG CACAAAAAACTTGA 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCCCCCAAAAAAAACTTGA 5760 5641 GGGGGCTCCC TTTAGGGTTC CAGTTTAAGTG CTTTACGGCA ACACTGGAAC ACACCCATCAAAC 5820 5761 CGTTGGAGTC CACGTTCTTT AATACTGGACCA ACACTGGAAAC ACACCCATCAAAC 5820 5761 CGTTGGAGTC CACGTTCTTT AATACTGGACCA CACTTCAGAG ACACCCATCAAAC 5820 5761 CGTTGGAGTT CACGT AGTGGGCCAT CGCCCTTGCCC GATTTCGGAAA ACACCACCCT 6900 5821 CTATCTCGGGG CTATTCTTTT GATTATAAG GGATTTGTCGCAAAC CAACCAAACCA	5401 AATCCCTTTA ATCGGCCTCC IGITIAGCIC COCCTGTAG CGGCGCATTA ACCCCCCTGTAG 5280 5461 ATACGTGCTC GTCAAAGCAA CCATAGTAG CACTTGCCAG CGCCCTAGCA GCTCTAAATC 5640 5521 TCGCTGGTGT TACGGCAGC GTGACCGCTA CACTTGCCAG CGCCCTAGCA GCTCTAAATC 5640 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCGCCTAT TCCCCGGCCTCAA GCTCTAAATC 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCTACAACC 5820 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCTACAACC 5820 5701 ATTTGGGTGA CCACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTTGGAACA CCACCATCAA 5880 5721 CTATCTCGGG CTATTCTTTT AATAGTGGAC GGTTGGACCGC TTGCTGCAAC CCCCTCAGCGC 5940 5821 CTATCTCGGG CTATTCTTTT AATAGTGGCC CGCCTTGGCCC TTGCTGCAAC ACCCCCT 6900 5821 CTATCTCGGG CTATTCTTTT AATAGTGGCC CGCCTTGGCCC TTGCTGCAAC ACCCCCT 6900 5821 CCAGGCCGTA AAGCCACCCCAG GGCCAAACCAG CGTCGAAAAAGAA AAACCACCCCT 6900 5941 CCAGGCCGTA AAGCCACACCG CCTCCCCCG CGCGTTGGCC CGTCAATTAAT GTCAGCTGGC 6900 6001 ACGACCAGTT TCCCGACTGG AAACCAGC CTCCCCCG CGCGTTGGCC CGCCTCGTTTT TTACAACCGT C6240 6121 TCACTCATTA GGCACCCCCAG ACCTTGCACCT TTATCCTTCC GGCCGTCGTTTT TTACAACCGT C6240 6121 TCACTCATTA GGCACCCCCAG ACCTTTACCACT TTATCACACT TTATCACCCCT TTACACACCGT C6480 6121 TCACCTCAGGCA AAACCCTGGC AGTCAGGCC ACTTTACACT TTATCACCCCT TTACACACCT CAAACAGGC CAAGTGCTAC 6480 6121 TCACCTCAGGCA CAAGTGCCC AGTCAGGCC TATTGTACCACT GTACAAAAACC 6360 6121 TCACCTCAGGCA CAAGTGCCC AGTCAGGCC TATTGTACCACT GTACAAAAACC 65400 6121 TCACCTCAGGCA CAAGTGCCC AGTCAGGCC TATTGTACCACT GTACAGAGC CAAGTGCTAC 6480 6121 TCACCTCAGGCA AAACCCTGGCA AGTCAGGCC TATTGTACACT GTACGAGAAAACC 63500 6121 TCACCTCAGGCA CAAGTGCCC AGTCAGGCC TATTTACACACT TTATTACACACT TTACACCCCTGTTTACCGC CAAGTGCCTAC 6480 6121 TCACCTCAGGCA AAACCCTGCCACACGGC TATCAGGCACCACACGTAACCGC CAAGTGCCTAC 6480 6121 TCACCTCAGGCA AAACACACGCACAGGC AAGTCACACGCACACACACACACACACACACACACACACA
GGTGGCCIL ALIGATIAN AGGGCATCA CEGTTAGGT TCCAALGAGA AAACGCGCGCGCGTAGT ATCCAALGAGA AAACCACCTC TGTTAGGTCC GCCAAAGCAGA CCATAGTAGG CGCCCTTAGA GCGGCCATTA AAACCACCTTT 5580 5461 ATACGTGCTC TCCAAAGCAAC CAAAGTAGTAGC CGCCCTGTAGA CCCCCTTAAAATC 5540 5521 GTGTGGTGT TACGCGCACCC CAAAAAAACTTG 5700 5581 TGGCTTTCTT CCCTTCCTTT CTCGCCACCGT TCCCCCGGCCTT CCCCTGTAAA CAAAAACTTG 5700 5581 GGGGCCTCCCCTTTAGGGTTC CGATTTAGTGC CTTTACACCCC AAAAAAACTTG 5700 5581 GGGGGCCTCCC TTTAGGGTTC CGATTTATAGTG CTTTACCGAACCCC AAAAAAACTTG 5700 5581 GGGGGCCTCCC TTTAGGGGTTC CGATTTATATAGTG CTTTTACCGAACCACCC AAAAAAAACTTG 5700 ATTTGGGTGA TGGTTCACCGT AATAGTGGGACCA CCCCCTGAACA CCACCCATCAACC 5820 5701 ATTTGGGTGA TGGTTCACCGT AATAGTGGACCA CCCCCTGATA AACGGGAACA CAACCAACCAA 5880 5761 CGTTGGAGACCA CCACCCATCAACCA 5880 5761 CGTTGGAGACCA CCACCCATCAACCA 5880 5761 CGTTGGAGACCA CACCGTTCTTT GAATTATAAGA GGATTTTCCC AATTCGGAACAACCACCCT 66000 5881 ACAAGGATTTT CGCCCTGCTGG GGCAAACCAG CGTGGAACCAGC TTGCTGCAACCA CCCCTGAGGC 5940 6001 GGGGCCCCAAT ACGGCAAACCAG CGCGTTTGCC CGGCTTGCGC CAATTCAATT	5341 GGGGGGCCT ALLGATIAT ATGGGCCTCC TGTTTAGCTC CGCCTCTGAT TCCAALGAGG AAAGACCAC S20 3401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CGCCCTGTAG CGGCCCATTAGAACCACCACCACCACCACCACCACCACCACCACCACCA	GGTGGCCIL ALIGATIAN AGGGCATCA CEGTTAGGT TCCAALGAGA AAACGCGCGCGCGTAGT ATCCAALGAGA AAACCACCTC TGTTAGGTCC GCCAAAGCAGA CCATAGTAGG CGCCCTTAGA GCGGCCATTA AAACCACCTTT 5580 5461 ATACGTGCTC TCCAAAGCAAC CAAAGTAGTAGC CGCCCTGTAGA CCCCCTTAAAATC 5540 5521 GTGTGGTGT TACGCGCACCC CAAAAAAACTTG 5700 5581 TGGCTTTCTT CCCTTCCTTT CTCGCCACCGT TCCCCCGGCCTT CCCCTGTAAA CAAAAACTTG 5700 5581 GGGGCCTCCCCTTTAGGGTTC CGATTTAGTGC CTTTACACCCC AAAAAAACTTG 5700 5581 GGGGGCCTCCC TTTAGGGTTC CGATTTATAGTG CTTTACCGAACCCC AAAAAAACTTG 5700 5581 GGGGGCCTCCC TTTAGGGGTTC CGATTTATATAGTG CTTTTACCGAACCACCC AAAAAAAACTTG 5700 ATTTGGGTGA TGGTTCACCGT AATAGTGGGACCA CCCCCTGAACA CCACCCATCAACC 5820 5701 ATTTGGGTGA TGGTTCACCGT AATAGTGGACCA CCCCCTGATA AACGGGAACA CAACCAACCAA 5880 5761 CGTTGGAGACCA CCACCCATCAACCA 5880 5761 CGTTGGAGACCA CCACCCATCAACCA 5880 5761 CGTTGGAGACCA CACCGTTCTTT GAATTATAAGA GGATTTTCCC AATTCGGAACAACCACCCT 66000 5881 ACAAGGATTTT CGCCCTGCTGG GGCAAACCAG CGTGGAACCAGC TTGCTGCAACCA CCCCTGAGGC 5940 6001 GGGGCCCCAAT ACGGCAAACCAG CGCGTTTGCC CGGCTTGCGC CAATTCAATT	GATGACCCITA ATCGGCCACCCC TOTAGACCACCCCTGTAG CGGCGCATTA AAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC	CGGTGGCCIC AUTGAILTA ATCGGCCTCC GGCTTTAGCT CGGCTCTGAT CCCAACGAB AAGCGCGCGG 5520 3401 AATCCCTTTA ATCGGCCAGC CATAGTAGG CGCCTGTAGG CGCCCTATAG AGCGCGCGGCGGCGAGC GTGAACGCGCTAGCAGCGCTAGCG CGCCTCAGAGCGATA AAGCGCGGCGGCTAGCGCGCTAGCGCGCTAGCGGCCCCC AAAAAAACTTG 5500 5521 GTGTGGTGGT TCCCCTTCCTTT CTCGCCACGT TCGCCAGCCC TCCCGACCCC AAAAAAACTTG 5700 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCGGCCA CCCCCCAAAAAAACTTG 5700 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCTACAGCC AAAAAAACTTG 5700 5521 CGCTTGGGGCCA CTTTAGGGCCAC CTCTTACAGCC 5701 ATTTGGGTGA TGGTCACGT AGTGGGCCAA CGCCCTGATA GACGGGTTTT CGCCACTCAAC 5820 5761 CGTTGGGGCC CACGTTCTTT AATAGTGGAC TCTTGCCAA AACAGCACACA CACACTCAACC 5820 5761 CGTTGGGGCC CACGTTCTTT GATTTATAGAG GGATTTTGCC GATTTTGCC AACTCGAACC 5820 5761 CGTTGGGGCC CACGTTCTTT GATTTATAAG GGATTTTGCC GTGAAAAGAA CAACCACCAT 6000 5821 CCAAGCCGGG AAAGCAGCCCC GGCCAAACCAG CTGTGCACGC TTGCTGCAAC TCTCTCAGGG 5940 5821 CCAGGCGGGTG AAGGGCAAACCAG CGCTGTTGCC GGTGAAAAGAA AAAACCACCCT 6000 5941 CCAGGCGGTG AAGGGCAAACCAG CCTCTCCCCG CGCGTTGGCC GTGAAAAGAA AAAACCATGGC 6050 6001 GGCGCCCAAT ACCCAAACCG CCTCTCCCCG CGCGTTGGCC GTGAAAAGAA AAAACCATGGC 6050 6001 GGCGCCCAAT ACCCAAACCG CCTCTCCCCG CGCGTTGGCC GTGAAAAAAAA AAACCAGCGGC 6050 6001 ACGACAGGTT CGCCCAAACCG CTTTACCCAAC GTGAGCCAAA CGCAAATTAAT TGGAGTAACA 6180 6121 TCGCTCATTA GGCACCCCAG GATTACCCAAA CGCGCTTGTTACCCATTTACACCTTTACACCATTTACACCTTTACACCATTTACACCTTTACACCATTTACACCATTTACACCTTTACACCATTTACACATT	5341 CGGTGGCCIC ACIGATITA ATCGGCCTCC TOTTAGGCTC CGCCTGTATA TCCAACGAGGATA AGGGCGGCGC 5520 5461 ATTACGTGCTC GTCAAAGCAA CCATAGTAGG CGCCTGTAGG CGCCCTAGAC CCCGCTCCTT 5580 5521 GTGTGGTGGT TACGCCCAGC GTGACCGCTA CACTIGCCAG CGCCCTAGAG GCTCTACATT 5580 5521 GTGTGGTGGT TACGCCCAGC GTGACCGCTA CACTIGCCAG CGCCCTAGAG GCTCTACATT 5580 5521 GTGTGGTGGT TCCCCTTCCTTT CTCGCCACGT TCCCCGGCCAT TCCCCGTCAA ACACAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCCCCGGCCA CACAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA 5760 5761 CGTTGGAGCC TATTCTTTT GATTTATAGTG CTTTGCCA AACTGGAACA ACACTCAACA 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC TCTTGTTCCA AACTGGAAA CAACTCAACC 5820 5761 CGTTGGGGCAT CACGTTCTTT GATTTATAGAG GGAACTTTGCC GATTTTGCC GATTTTCCAGG 5940 5881 ACAGGATTT CACCTGTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAA CAACTCACCT 6000 5941 CCAGGCCGGTG AAGGGCCAATC AGCCTGTTGCC CGTCTCGCTG GTGAAAAACA AAACCACCCT 6000 5941 CCAGGCCGGTG AAGGGCAATC AGCCTGTTGCC CGTCTCGCTG GTGAAAAACA AAACCACCCT 6000 6001 ACGACCAGTT ACGCACACCCAG CCTCTCCCCG CGCGTTGGCC GATTCATTAAT GGCACCTCTTGGC 6060 601 ACGACCAGTT ACGCACCCCAG GTGAACCGCAA CACATTAAT TGCAGCTTGGC 6060 601 ACGACCAGGT ACGCCCCAG GTTTACCCACT TTATGCTTCC GGCTCGTTT TTACAACCGT 6240 6121 TCACTCATTA GGCCACCCCAG CTTTACCCACAT ACCGTTACTG TTTACCACCTT TACACACCGT 6240 6121 TCACTCATTA TGCCTACTGCC CTTTACCCACT ACCGTTACTG TTTACCACCTT TACACACCGT CACACACACT TCTACCCCAGT ACCGTTACTG TTACCACACAGT ACCGTTACTG TTACCACACAGT ACCGTTACTG TTACCACACACACC 6600 6241 GTGACCAGAAC CTTCTCACAGGCCT ACTTGCCAC AGGAAAAAAA AAACCACCAC 6420 6361 CGCCCAGGTC CACGTTGCTC ACTTTACCCAAT AGGTTACACACACC TCTACACCACACACACACACACACACAC	5341 CGGTGGCGLC ACLIGATITA GTCTAGCTC COCCTGTAGC CGCCCTGTAGC AGAGGATA AGGGCGGCGCGCGCGCTCCT 5580 5461 ATACGTTGCT GTCAAAGCAA CCATAGTAGG CGCCCTGTAGG CGCCCTAGCG CCCCCTTAGATC 5540 5521 GTGTGGTGGT TACGCCCAGC GTGACCGCTA CACTTGCCAG CGCCCTAGAGC GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCCAGC GTGACCGCTA CACTTGCCAG CGCCCTAAATC 5540 5521 GTGTGGTGGT CCCTTCCTTT CCCTTCCTTT CTCGCCACGT TCCCCGGCCA CCTCTAAATC 5540 5521 GGGGGCTCTC CTTTAGGGTTC CGATTTAGTG CTTTACGGCA CCCC AAAAAACTTG 5700 5531 TCGCTTTCTT CCCTTCCTTT CGCATCGCCACGT CCCCGGATTA CACGGCCTTTTT CGCCTACCACC 5820 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGGATA CACACTCAACC 5820 5701 ATTTGGAGTC CACGTTCTTT AATAGTGGGAC TCTTGTTCCA AACTGGAACA ACAACTCAACC 5820 5701 CGTTGGAGTC CACGTTCTTT GAATTTATAAG GGATTTTGCC GATTTTCGGAA CCACCCATCAA 5880 5701 CTATCTCGGG CTATTCTTTT GAATTTATAAG GGATTTTGCC GATTTCGGAAC TCTTCTCAGGG 5940 5821 CTATCCTGGG CAAACCAC CGCCTGTGGC CGTCTGCGG GTGAAAAGAAA AAACCACCCT 66000 5841 CCAGGCGGTG AAGGGCAAATC CACCTCTCCCG CGCCGTTGGCC GATTCATTAA GTGAGTTAGC 6120 6001 GCGCCCCAAAA ACGCAAACCG CGTCTCCCCG CGCCGTTGGCC GATTCATTAA TGTGAGTTAGC 6120 601 ACGACAGGTT TCCCGACTGG AAAGCGGCCA GTGAACGCAAA CACATTAAT TGTGAGTGAAC 6320 6121 TCACTCATTA GGCCACCCCAG GCTTTACCACT TTATGACCTTG TTACAACCGTC 6240 6121 TCACTCATTA GGCCACCCCAG GCTTTACCACT TACGACTAGTA TTACAACCGTC 6240 6121 TCACTCATTA GGCCACCCCAG GCTTTACCACT TACGACTAGTAC TTACAACCGTT TTACCACCTG TGACAAAAAGC 6350 6121 TCACTCATTA GGCCACCCCAG GCTTTACCCACAG CTTTACACAC TACGAGAAAACC 6380 6121 TCACTCATTA GGCCACCCCAG GCTTTACCACACAGTTACC CACAGGGACA CGCTTACCCCAGG CTTACCCCAGGGCAC CGCTTACCCCAGG CTTTACCACTTACAC CACAGGGACA CGCTTACCCAGGCCT ACCGTTACCAC GGGGAATTATAT CAACAGAACAC CACAGGAAACCAC CTACGCAC CTACGACAGGAC CTTTCACCCATTACAC CAACAGGTAC CACGAACAGTT ACCGACAGGAAAACCCTTGCACACAGAACACAC CACCAGAACACACACACACACACA	5341 CGGTGGCCICTA ATCGGCCTCC GTTAGTAGCTC CCGCCTCTGAG CGGCCATTAGA AGGGCGGCGGCTCTTA ATCGGCCTCCTT AGTCGCCAGC CGGCCCTGTAG CGGCCCTAGCG CCGCCTCCTT 5580 5461 ATACGTGCTC GTCAAAGCCAG CTGGACCGCTA CACTTGCCAG CGCCCTAGCAG CACCACCTCTAAATC 5540 5521 GTGTGGTGGT TACGGCGAGC GTGGACCGCTA CACTTGCCAG CGCCCTAGCAG CACCACACCTCTAAATC 5540 5521 GTGTGGTGCTTCTTT CCCCTTTCTTT CTCGGCACCGT CCTCGACCC CACCACACCA
1281 IACIARICA ACTORIATION ANABCACTTIC TCAAGAIICI GEGERACEAGA AAAGCACGTT 5460 129401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCCTCTGAT CCGGCGCATTA ACCGGCGCGCG 129401 AATCCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCCTTGAG CGGCCCTAACGC CCCCTTACCG 129401 AATCCGCCTCC GTCAAAGCAA CCATAGTACG CGCCCTGAG CGCCCTAACGC CGCCCTAACGC 12950 CTAAGCACCT TACCGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCTAACAC CCCCTTAACTC 12950 CTACTTCTT CCCCTTCCTTT CTCGCCACGT TCCCCCGGCTA CCCCCTAACACACCTCA CACTTAAACTT 12950 CTTTCTTCCCCCCTTTTAGGGTTC CGATTTAGGGT TCCCCCGCTTTTACGGCA CCTCGAACCACC AAAAAAACTTG 12950 CTTTCGCTGCCCCCTTTAGGGTTC CGATTTAGGGT CCCCCTGATA GACCGCCCTAAAAAAACTTAACCTTAACACCACCT 12950 CTTTCGGAGTC CACCGTTCTTT AAATAGTGGAAC CCCCCTGATA GACCGAACCACACCAC	1241 CAGGGGGCC THATACHT GATTATA ANABCACTTIC TCAAGGAILCI GGCGCATTA AGCGCGGCT 5520 1461 ATACGTCCTC GTCAAAGCAA CCATAGTACG CGCCCTGAG CGGCCCTAACGC CCCGCTCCTT 5280 1461 ATACGTGCTC GTCAAAGCAA CCATAGTACG CGCCCTGAG CGCCCTAACGC CCCCTAACGC CGCCCTAACGC 15521 GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCAGG CGCCCTAACGA CCTCTAAATC 5540 15521 GTGTGGTGGT TACCCGCACGC GTGACCGCTA CACTTGCAGG CGCCCTAACACACCTC AGAAAAACTTG 5700 15641 GGGGGCTCCC TTTAGGGTTC CGCTTTTATTTACGTG CTTTACGGCA CCTCGAACCCC AAAAAAACTTG 5700 15641 ATTTGGGTGA TGGTTCACGT AGTGGGCCCTTTACGGCA CCTCGAACCACTTAA 52700 15641 ATTTGGGTGA TGGTTCACGT AGTGGGCCCATTTACGGCA CCTCGAACCACTTAA 52700 15641 ATTTGGGTGA TGGTTCACGT AGTGGGCCCATTTACGGCA CCTCGAACCACTCAA 52800 15761 ATTTGGAGTC CACGTTCTTT AAATAGTGGAAC CCTCGCCCTGAAA AAACACACCACCACACACCACAC	1281 IACIARICA ACTORIATION ANABCACTTIC TCAAGAIICI GEGERACEAGA AAAGCACGTT 5460 129401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCCTCTGAT CCGGCGCATTA ACCGGCGCGCG 129401 AATCCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCCTTGAG CGGCCCTAACGC CCCCTTACCG 129401 AATCCGCCTCC GTCAAAGCAA CCATAGTACG CGCCCTGAG CGCCCTAACGC CGCCCTAACGC 12950 CTAAGCACCT TACCGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCTAACAC CCCCTTAACTC 12950 CTACTTCTT CCCCTTCCTTT CTCGCCACGT TCCCCCGGCTA CCCCCTAACACACCTCA CACTTAAACTT 12950 CTTTCTTCCCCCCTTTTAGGGTTC CGATTTAGGGT TCCCCCGCTTTTACGGCA CCTCGAACCACC AAAAAAACTTG 12950 CTTTCGCTGCCCCCTTTAGGGTTC CGATTTAGGGT CCCCCTGATA GACCGCCCTAAAAAAACTTAACCTTAACACCACCT 12950 CTTTCGGAGTC CACCGTTCTTT AAATAGTGGAAC CCCCCTGATA GACCGAACCACACCAC	1241 GGGTGGCCTC ACTGGATTATA AAAACCTTC TCAAGGAILLI GGGGTGGCATTA AAAGCACGTT 5460 12401 AATCCCTTTA ATCGGCCTCC TGTTTTAGCTC CCGCTCTGAT TCCAAGCAGG AAAGCACGCGCG5520 12401 AATCCCCTTTA ATCGGCCTCC TGTTTTAGCTC CCGCCTCTAGCG CCCCTAAGCG CCCTCCTT 5280 12521 GTGTGGTGGT TACGCGCAACC GTGACCGCTA CACTTGCCAG CGCCCTAAGCG CCCCTAAGTC 5520 12521 TCGCTTTCTT CCCTTCCTTT CTCGCCGCCTT TCCCCCGGCTT TCCCCCGGCCCC AAAAAAACTT 5540 12521 TCGCTTTCTT CCCTTCCTTT CTCGCCACCT TCCCCCGGCTT TCCCCCGGCCCC AAAAAAACTTG 5760 12521 TCGCTTTCTT CCCCTTCCTTT CTCGCCACCT TCCCCCGGCTT TCCCCCGGCTTTTTCAACCTTGA 5760 12521 TCGCTTTCTT CCCCTACTT AGTGGGCCACCT TTCCCCAGCTTT CCCCCGCCCC AAAAAAACTTCAA 5760 12521 TCGCTTTCTT CACGT AGTGGGCCACT TCCCCCGCCCC AAAAAAACCACCCTTAAGC 5820 12521 CTATCTCGGG CTATTCTTT AAAATGTGGAC TCTTGTTCCA AACCGGAACA ACACTCAACCA 5820 12521 CTATCTCGGG CTATTCTTTT AAAATGTGGAC CCTCTGACCC CTTGCTGCAAAC CCCCCTAAGGG 59940 12521 CTATCTCGGG CTATTCTTTT AAAATGTGGAC CCTGCTCGCT GTGCGCAAACCA CCACCATCAA 5820 12521 CTATCTCGGG CTATTCCTTT AAAATAAGTGGAC CGTGTCGCT GTGCGCAAACCA CCACCATCAA 5820 12521 CTATCTCGGG CTATTCCTTT AAAATAAGTGGAC CGTGTCGCAGC CTGCTAAGAACAC CTACCAAACCG CGTGTTGCCC CGTCTCGCTG GTGAAAAAGAA AAACCCACCCT 6000 12521 CCAGGCGCCAAA CCGCAAACCG CACCTGTTGCACC CGTCTCGCTG GTGAAAAAGAA AAACCCACCCT 6000 12521 CCAGGCGCCAAA CCGCAAACCG CACCTGTTCCCCG CGCGTTGCAAC CGAATCAAT AAAACCACCCT 6000 12521 CTACCTCATTA GGCAACCACCGA CGCAAACCAC CGTTTGCACAAAACAC CTACCAAACCG CTGCTATGCATTAAAAAAAAACCACCCTGCC CGCCTTCCCCG CGCCTTCGTATG TTTACAACCCTATG CACAAAAAAAACCACCACCACCCAAACCG CTTTCCCCAAGACCTATTACACCCTAAGAAAAAAAAAA	12581 IACIAAILMA ACGACAGCTIC TCAAGAIICI GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	12581 IACIAAILMA ACGAGATTATA ACAGACCTIC TCAAGAILCI GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	5281 IAGATRA LCAA ACCGCCTC ACTIGATA AAAACACTTC TCAAGA III GCGAACGAG AAAGACATT 5460 5341 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGTAG CGGCGGATA AGCGCGGCG 5520 5461 ATACGTGGCTC GTCAAAACCAC CAATAGTACG CGCCCTGTAG CGGCGCATTA AGCGCGGCGG 5520 5461 ATACGTGGTTC GTCAAAACCAC CAATAGTACG CGCCCTGTAG CGCCCTCTAGCG CCCCCTCTTAG 5540 5521 GTGTGGTGGT TACGCGCAGC GTGACCACGT TCGCCGGCTT TCCCCGTCCAA GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCCAGC TCGCCACGT TCGCCGGCTT TCCCCGTCCAA GCTCTAAAACTTG 5700 5541 GGGGGCTCCC TTTAGGGGTTC CACGTTAGATC CTTCACGCCA GACACCCC AAAAAACTTG 5700 5541 GGGGGCTCCC TTTAGGGGTAC CACCACGTTTCCA ACCACGCCATTAG 5760 5541 GGGGGCTCCC TTTAGGGGTTC CACGTTGGGAC CGCCCTTTGA 5760 5541 GGGGGCTCCC TTTAGGGGTTC CACGTTGGGACCAC CTTCTCCACCC AAAAAACTTG 5700 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC CTTCTTCCA GACGGTTTCCAA ACACTCAACAC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC CTTCTTCCA GATTGGAAACAA CACCACACACACACACACACACACACACACA	5281 IACITARA LUAR ACAGATTATA ANARCACTTC TCAAGATILLI GCGAAGAGAGA ANAGCACGTT 5460 5341 AATCCCTTTA ATCGGCCTCC TGTITAGCTC CCGCTCTGTAG CGGCGGATTA AGCGCGGGG 5520 5461 AATCCCTTTA ATCGGCCAGC TGTITAGCTC CCGCTCTGTAG CGCCGCGCCTCTCTT 5580 5461 AATCCCTTTCTT CGCAAAGCAA CACATAGTACG CGCCCTGTAG CGCCCCCTCCGTT 5580 5521 GTGTGGTGGT TACGCCCAGC GTGACCGCTA CACTTGCCAG CGCCCTCAAG GCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCCAGC GTGACCGCAT TCGCCCAGCTT TCCCCGTCAA GCTCTAAATC 5540 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCCAGCTT TCCCCGTCCAA ACAACACTTG 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGGACCC AAAAAACTTG 5760 5641 GGGGGCTCCC TTTAGGGTTC CGATTTATAAG GCCCTTGATA GACGGATCA CACCATCAA S880 5701 ATTTTGGGTGA TGGTTCACTTT AATAGTGGAC CTTCTTTTCCA AACTGGAAACA ACACTCAACACACACACACACACACACACACACA
TAGAGATTATA AGAAGTATIA AAAAGTATIA AAAAGACTIC CCGCTCTGAT TICCAAGAGG AAAGCACAGT 3450 3401 AATCCCTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGAT TICCAAGAGG AAAGCACAGT 3450 3401 AATCCCTTC GTCAAAGCAA CCATAGTACC CCGCTCTGAT TICCAAGAGAG AAAGCACAGT 3520 3461 ATACCTGCTC GTCAAAGCAA CCATAGTACAC CGCCCTAGCG CCCCCTAAATC 5520 5461 ATACCTGCTC GTCAAAGCAA CCATAGTACAC CGCCCTAGCG CCCCCCAAGCG CCGCCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCACAGC TGGACCAGCT CCCCCCTCATA CGCCCCCCAAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTGCCACGT TCGCCAGGCT TCCCCCGCCCTAAAACCAGCCC AAAAAAACTTG 5700 5581 TCGCTTGCTT CCCTTCCTTT AATAGTGGAC CTTTGACTAC GACCGCAAACAACAACCAACCACCATCAA 5820 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCCAT CGCCCTGATA GACCGGAAACA ACATCAACC 5820 5701 ATTTGGGTGA TATCTTTT AATAGTGGAC TCTTGTTTCCA AACTGGAACA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT AATAGTGGAC TCTTGTTTCCA GATTTCCGAAC TCTTCCAGGG 5940 5881 ACAGGATTTT CCCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTTCCAGGG 5940 5881 ACAGGATTTT CCCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTTCCAGGG 6060 5881 ACAGGATTTT CCCCTGCTGG GGCAAACCAG CGTGAACCACC TTGCTGCAAC ACTCATCAACACCCC TGCCCCG GGGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6061 ACCACAGGT AAGGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCCTATTG TTGTTGGGAA 6120 6061 ACCACAGGT ACGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCCTATTG TTGTTTAGC 6120 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCTCTATG TTGTGTGGAA 6240 6121 TCACTCATTA GGCACCCCAG CTTACCCCAG CTTGTACACT GGCACTCATT TATGTGTGCAC GACCGCAC 6240 6121 TCACTCATTA GGCACCCCAG CTTACCCCAG CTTGTACACT TTATGCTTCC GGCCTCATT TTATCAACACACT TTACCACCAG CTTGTTACACT TTATGCTTCC GGCCTCATT TGTACAT GGCACCCAGG CACCGCAC 6240 6121 TCACCCAGGTC CAGCTGCCC CTCCTACCCAG CTTTACCCCAG CCCCCCCCCAG CACCGCAC 6240 6121 TCACCCAGGTC CAGCTGCCC CTCCTACCCAG CTCCACCAGAACCAC CACCGAGAC CAGCACCGCAC 6240 6241 GGACCAGGCT CAGCTGCCC CCCCCCAG CTCCACACGAGAC CACCGCAC 6240 6241 GGACCCAGGCT CAGCTGCCC CCCCCCCCCCCCCCCCC	25281 TACTARTCAA AGAAGTATIA AAAAGCACTIC CAGCTCTGAT TECAAGAGG AAAGCACAGT 3450 5341 CAGTGACCCT ACTGATTATA AAAAACACTIC CAGCTCTGAT TECAAGAGAG AAAGCACAGT 3450 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CGCTCTGAT TECAAGAGAG AAAGCACAGT 3520 5461 ATACCTGCTC GTCAAAGCAA CCATAGTACAC CGCCCTAGCG CCCCCTAACGC CCCCCCTCCTT 5580 5521 GTGTGGTGGT TACGCCACAG TGGACCAGC TCGCCCCCAG CGCCCTAACG CCCCCCAAAAAAACTTG 5700 5521 TCGCTTTCTT CCCTTCCTTT CTGCCACCGT CGCCCCTGATA GCCCCCCAAAAAAACTTG 5700 5521 GTGTGGTGGT TACGCCACAGC TGGACCAGC TCGCCCCTGATA GCCCCCCAAAAAAACTTG 5700 5521 GTGTGGAGGC TGGTTCACGT ACTGGCACCGT ACGCCCCCAAAAAAACTTG 5700 5521 ATTTGGGTGA TGGTTCACGT ACTGGGACCAT CGCCCTGATA GACCGGAACA ACATCAACC 5820 5701 ATTTGGGTGA TGGTTCACGT ACTGGGACCAC TCTTGTTTCAC AAACTGGAACA ACATCAACC 5820 5701 ATTTGGGTGA TGGTTCACGT ACTGGGACCAC TCTTGTTTCAC AAACTGGAACA ACATCAACCACTCAAC 5880 5821 CTATCTCGGG CTATTCTTTT AATAGTGGAC TCTTGTTTCAC AAACTGGAAC ACCCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGACCAC TGCACCACC TTGCTGCAAC ACTCCAGAC ACCCACATCAA 5880 5821 CTATCTCAGG CTATTCTTTT AATAGTGGAC CTTTGCTGCACC GATTCATTAA TGCAGCTGGC 6000 5821 ACAGGATTTT CGCCTGCTGG GGCAAACCAG CGTCGACCGC TTGCTGCAAC ACTCCACCCAC 6000 5821 ACAGGATTAT CGCCTGCTGG GACAACCAG CGCCATTAAC TCACCACC 6000 6001 GGCGCCCAAT ACGCAACCG CTCTCCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC 6000 6001 GGCGCCCAAT ACGCAACCG CTCTCCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGAC 6020 6001 GGCGCCCAAT ACGCAACCG CTCTCCCCCG CGCGTTGGCC TATGTTATGT	TAGAGATTATA AGAAGTATIA AAAAGTATIA AAAAGACTIC CCGCTCTGAT TICCAAGAGG AAAGCACAGT 3450 3401 AATCCCTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGAT TICCAAGAGG AAAGCACAGT 3450 3401 AATCCCTTC GTCAAAGCAA CCATAGTACC CCGCTCTGAT TICCAAGAGAG AAAGCACAGT 3520 3461 ATACCTGCTC GTCAAAGCAA CCATAGTACAC CGCCCTAGCG CCCCCTAAATC 5520 5461 ATACCTGCTC GTCAAAGCAA CCATAGTACAC CGCCCTAGCG CCCCCCAAGCG CCGCCTCTAAATC 5540 5521 GTGTGGTGGT TACGCCACAGC TGGACCAGCT CCCCCCTCATA CGCCCCCCAAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTGCCACGT TCGCCAGGCT TCCCCCGCCCTAAAACCAGCCC AAAAAAACTTG 5700 5581 TCGCTTGCTT CCCTTCCTTT AATAGTGGAC CTTTGACTAC GACCGCAAACAACAACCAACCACCATCAA 5820 5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCCAT CGCCCTGATA GACCGGAAACA ACATCAACC 5820 5701 ATTTGGGTGA TATCTTTT AATAGTGGAC TCTTGTTTCCA AACTGGAACA CCACCATCAA 5880 5821 CTATCTCGGG CTATTCTTTT AATAGTGGAC TCTTGTTTCCA GATTTCCGAAC TCTTCCAGGG 5940 5881 ACAGGATTTT CCCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTTCCAGGG 5940 5881 ACAGGATTTT CCCCTGCTGG GGCAAACCAG CGTGGACCGC TTGCTGCAAC TCTTCCAGGG 6060 5881 ACAGGATTTT CCCCTGCTGG GGCAAACCAG CGTGAACCACC TTGCTGCAAC ACTCATCAACACCCC TGCCCCG GGGTTGGCC GATTCATTAA TGCAGCTGGC 6060 6061 ACCACAGGT AAGGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCCTATTG TTGTTGGGAA 6120 6061 ACCACAGGT ACGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCCTATTG TTGTTTAGC 6120 6121 TCACTCATTA GGCACCCCAG GCTTTACACCT TTATGCTTCC GGCCTCTATG TTGTGTGGAA 6240 6121 TCACTCATTA GGCACCCCAG CTTACCCCAG CTTGTACACT GGCACTCATT TATGTGTGCAC GACCGCAC 6240 6121 TCACTCATTA GGCACCCCAG CTTACCCCAG CTTGTACACT TTATGCTTCC GGCCTCATT TTATCAACACACT TTACCACCAG CTTGTTACACT TTATGCTTCC GGCCTCATT TGTACAT GGCACCCAGG CACCGCAC 6240 6121 TCACCCAGGTC CAGCTGCCC CTCCTACCCAG CTTTACCCCAG CCCCCCCCCAG CACCGCAC 6240 6121 TCACCCAGGTC CAGCTGCCC CTCCTACCCAG CTCCACCAGAACCAC CACCGAGAC CAGCACCGCAC 6240 6241 GGACCAGGCT CAGCTGCCC CCCCCCAG CTCCACACGAGAC CACCGCAC 6240 6241 GGACCCAGGCT CAGCTGCCC CCCCCCCCCCCCCCCCC	7281 TĂCTĂATCAA AGAAGTATIG CIALARAGUS TOTA AGAGATTOT ACTIVATA AAAACACTT TOTA ATTA AAAACACTT TOTA ATTA AAAACACTT TOTA ATTA AAAACACTT TOTA ATTA AAAACACTT TOTA ATTA AT	25281 TACTRATCAA AGAAGTATIG CIALARACUST TATAGATTCT GECTACCGT TCCIGITAR 2400 5341 CAGTGGCCCC ACCGATTATA AAAACACTT CAACAATTCT GECTACCGAGG AAAGCACGTT 2580 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGGTC CGGCCTTGAT TCCAACGAGG CACCGCCTT 5580 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGGTC CGCCCTTGAG CGGCCCTAACGC CCCCGCTCTT 5580 5521 GTGTGGTGGT TACCGCCACCAC CGTGACCCCTA CACCTTGCCAG CGCCCTAACAC CGCCCTTAAATC 5540 5521 GTGTGGTGGT TACCGCCACCAC CGGCCCTAACAC CGCCCTAAAACACTTG 5700 5581 TCGCCTTTCTT CCCTTCCTTT CTCGCCACCGT TCCCCCGGCCT TCCCCGACCCC AAAAAAACTTG 5700 5581 GGGGGCTCCC TTTAGGGTTC CGATTTAGTGT CTCCCCGCAC CCTCGACCCC AAAAAAACTTG 5700 5581 GGGGGGTCCC TTTAGGGTTC CGATTTAATTAGTTCC CACCCTGATA GACCGCACCC CAAAAAAACTTG 5700 5581 GCGTTGGAGG CAATTCTTT AATAGTGGGAC CCCCTGATA GACCGCACCACCAACAA CCCCT CAACCACCACCACCAACAACACCTC CGTTGTTCCCCACCC CGCCTTGCTCCCCACCC CAAAAAAACTTC ACACCTCAACC 5820 5761 CGTTGGAGGC CTATTCTTT GATTTATAAG GGATTTTCCC GATTTCGGGAACA CCCCTCAGGC 5940 57821 CTATCTCGGG CTATTCCTTT GATTTATAAG CGGTGGACCGC TTGCTGCAACC CTCTCAGGG 5940 57831 ACAGGAGATTT CGCCTGCTGG GGCAAACCAC CGCTTCGCTG TGTGAAAAGAAC TCCTCCAGGC 6050 57841 CCAGGCGGTT CACCGCTGC AGCCGCTTGCCC CGCCTTGCTGCAACCACCCCT 6000 57841 CCAGGCGGTT CACCGCTGC AGCCGCTGCCC CGCCTTGCTCCCACT TTTTTAGGCTTACC GGCCATTAACACT TCCCCCAG CCCGTTTGCC CGCCTTTCCCCCG CGCTTTGCCC GATTTAATA TGCAGCTTGC 6050 57841 CCACCAGGTT CCCCAACACCG CCTCCCCCCC CGCCTTTGCCC CGTTCATTAA TGCAGCTTGC 6050 57841 CCACCAGGTT CCCCAACACCGC CCCCTTCCCCCC CGCCTTTGCTCATTAA TGCAGCCTAT TATTTTTAATA TTCGAGCTTACCCACCCTG CCCCTTTTTCCCCCCCTG TTTTTTTTTT	\$281 TACTAATCAA AGAAGTATIG CIRCAGGS) TACTAGATTCT SGCGTTACCTG TCCIGITAGAS 3400 5241 CAGTGGCCTC ACTGATTATA AAAACACTTT TCCAACGAGAGA AAAGCACGTT 3400 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGAT TCCAACGAGGA AAAGCACGTT 3400 5401 AATCCCTTTA ATCGGCCAGC GTGACCGCTT TCCCCGTCAGC CCCGCTCCTT 5520 5401 AAACCACTCT TACGCCCAGC GTGACCGCTA CACTTGCCAG CCCCCTCAGCG CCCGCTCCTT 5580 5261 GTGTGGTGT TACGCCCAGC GTGACCGCTA CACTTGCCAG CGCCCTCAAAAAAACTTG 5700 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCCCCGGCAGC ACAAAAAACTTG 5700 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCCCCTGATCA GCTCTAAATC 5540 5521 TCGCTTTCTT CCCTTCCTTT CAGTTAAGTG CTTTTACGCA AACTGCACCC AAAAAAACTTG 5700 5521 CGTTGGAGCC CACGTTCTTT AATAGTGGACC TCCCCTGATA GACCGCTTTTA CGCCCTTTGA 5750 5761 CGTTGGGGC CACGTTCTTT AATAGTGGACC CTCTGCTAGA CCACCCATCAAC 5820 5761 CGTTGGAGCC CACGTTCTTT AATAGTGGACC CTTGCTGCAAC CCACCCATCAAC 5820 5761 CGTTGGAGCC CACGTTCTTT AATAGTGGACC CTTGCTGCAAC CCACCCATCAAC 5820 5761 CGTTGGAGCC CACGTTCTTT AATAGTGGACC CTTGCTGCAAC CCACCCATCAAC 5820 5761 CGTTGGAGACTTT CACCATCAGGG GCAAACCAG CGCTGTGCGC GTGAAAAGAA AAACCACCCC G6000 5841 CCACGGCGGTG AAAGCAACCAC CCCCCCC CGTCTCCCCG CGTCTCCCCTG GTGAAAAGAA AAACCACCCC G6000 6001 GGCGCCCAAT ACCCAAACCG CCTCTCCCCG CGTCTCGCTG GTGAAAAGAA AAACCACCCC G6000 6001 GGCGCCCAAT ACCCAAACCG CCTCTCCCCG CGTCTCCCCG GGCAAATTAAT TGCACTTAAT TGCACTCATTA GGCACACCACG CCTCTCCCCG GTGACACACAGT TTAACCACTAT TACGCCACACTAT ACCCACAGGGAAACCA CCACCACAGT ACCCACACAGT ACCCACAACAGT ACCCACACAGT ACCCACACAGT ACCCACAGGC ATAACCACTGC GTTTACCCAAC GGCCTTACTG TTTACCCACT TTACCCACCACC GGCCCCACC GCCCCACC GCCCCACC GCCCCACC GCCCCACCC GCCCCACCC GCCCCACCC GCCCCACCC GCCCCACCC GCCCCACCC GCCCCACCC GCCCCACCC GCCCCACCCCACC GCCCCACCC GCCCCACCC GCCCCACCC GCCCCACCCCACCC GCCCCCACCC GCCCCACCCCACCC GCCCCCACCC GCCCCCACCC GCCCCCACCC GCCCCCACCCC GCCCCCCCACCC GCCCCCACCCC ACCCCACCCCACCCC GCCCCCCACCCC GCCCCCCACCCCCCACCCC GCCCCCCCC	5281 TXCTAGTCAA AGAAGTATIG CIRCARACGU! TCAAGATTCT GGCGTTCCTGTTCLIAACGCCTC TCAAGACACTTC S450 5341 CAGGGCCTC ACTGATTATATA AAAACACTTC CCGCCTGTAGT TCCAAACGAGG AAAGCACGTT 5450 5461 AATACGTTCAAAGCAA CCATAGTAGCT CCGCCCTGTAG CGGCGCAGTTA AGGGCGGCGG 5520 5461 AATACGTGCTC GTCAAAGCAA CCATAGTACG CGCCCTGTAG CCGCCCTAGCA CCCCCTCTTT 5580 5521 GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCTACAC CCCCCTTAAATCT 5540 5521 GTGTGGTGGT TACCGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCTACAC CCCCCTACAA CCACTAGTACAC 5521 GTGTGGTGGT TACCGCCAGCT TCGCCACGT TCCCCGTCAAA CACACTTTGA 5760 5581 CCGCTGTCTT CCCTTCCTTT CTCGCCACGT TCGCCGCACT TCCCCGACCC AAAAAACTTG 5700 5581 GGGGGCTCCC TTTAGGGTC CCGTTTAACAC TCTTCCTCCACCC AAAAAACTTG 5700 5581 CCGTTGGAGCA CCACTACACAC CACTACACACACACTTGAC CGCCCTGATA GACCGCACCACATCAA 5880 5761 CGTTGGAGTC CACGGTTCTTT AATAGTGGGCCA CTCTGTTCCA AACTGGAACA ACACTCACACACACACACACACACACACACACACA	5281 TACTRATCAA AGAAGTATIG CIALARACGU TCAAGATTCT GGCGTACCGT TCCIACACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCCGT GATGGACAGA TLCTTGTAA 5450 5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCCGT GATGGACCGT TACTAA 5450 5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCCGT GATGTATATA AAAACACTTC TCAAGATTTT GGCGTACCGT TACAACGAGG AAGCACGGT 5460 5401 AATCCCTTTA ATCGGCCTCC TCTTTTAGCTC CCGCCTGTAAT CCGAACGAGG AAGCACGGCGGCGTATTA AGCGGCCAGC TACAACGAGG ACCCCCGCTCTTTTAATCTTTAGCTC CCGCCCTGTAAT TCCAACGAGG ACCCCCGCTCTTTCTTTAGCTTC CCCTTCTTTTTAGCTC CCGCCCTGTAATACCGCCCAGGCCCTTTTCTTCTCCCTTCCTT	TOTGGATATIA ACCAGAGATATIC CHACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCCGT GATGGACAGA TLCTTGTAA 5450 5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCCGT GATGGACCGT TACTAA 5450 5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCCGT GATGTATATA AAAACACTTC TCAAGATTTT GGCGTACCGT TACAACGAGG AAGCACGGT 5460 5401 AATCCCTTTA ATCGGCCTCC TCTTTTAGCTC CCGCCTGTAAT CCGAACGAGG AAGCACGGCGGCGTATTA AGCGGCCAGC TACAACGAGG ACCCCCGCTCTTTTAATCTTTAGCTC CCGCCCTGTAAT TCCAACGAGG ACCCCCGCTCTTTCTTTAGCTTC CCCTTCTTTTTAGCTC CCGCCCTGTAATACCGCCCAGGCCCTTTTCTTCTCCCTTCCTT	5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCGGT GATGGACAGA TICTTTAA 5400 5281 TACTAATCAA AGAACTATTG CTACAACGGT TAATTTCGGT GATGGACCAGA TICTTTAA 5400 5401 AATCCCTTTA ATGGCCTCC TGTTTTAGCTC CGCCTCTGAT TCCAAGGAGG AAAGCACGGT 5460 5401 AATCCCTTTA ATGGCCTCC TGTTTTAGCTC CGCCTCTGAT TCCAAGGAGG AAAGCACGGT 5580 5401 AATCCCTTTA ATGGCCTCC TGTTTTAGCTC CGCCTCTGAT TCCAAGGAGG AAAGCACCTC TS580 5401 AATCCTTTCTT CCCTTCCTTT CTCGCCGCCTCTTAGCTC CGCCCTCTAA GCGCCCTATAA ACCGGCCCC 5401 ATACCTGCTTCTT CCCTTCCTTT CTCGCCAGCT CACCTTCCAG CGCCCTCAAA GCCCCTAAATC 5580 5521 TGGTGGTGGT TACGGGCACC GTGACCGCCC TCCACAG GCCCCTCAAA GCCGCTTTTAGCTC CCCTTCCTTT CCCTTCCTTT CTCGCCAGCT TCCCCGCCTCAAA GCCGCTTTTAGCTC CACCTTCTTT CCCCTTCCATC CACCTTCTT CCCACCTCTAAA GACGACTTTT CCCCACCTCCAAACAACCTCAACCC CACCTCAAACAACCACCC CACCTCCAAACAACCACCC CACCTCCAAACAACCACCC TCCACCACCAACCCACCC	TOTAGATATI ALCAGCAGGA CONTRACTOR	TOTGGATATI ALCAGCAGUE COMMINISTED CONTROLL TRACTITICACITY GATGACAGA TICLITICATA SANDO COMMINISTED CONTROLL TO CAGAGUE TO CONTROLL TO CONTR	5221 TACTGGATATI ALCABLANGU CUSTACIAACGET TAATTTGCGT GATGGACAGA CLUTTATA 2400 5281 TACTAATCAA AGAAGTATTG CTAAACGET TAATTTGCGT GGCGTACCGG TLCTGTCTAA 2400 5281 TACTAATCAA AGAAGTATTAA AAAACACTTC TCAAAGATTCT GGCGTACCGG AAAACGACCGTT 5460 5341 CAGCGCCCCTC GTCAAAAGCAA CCATTAGTACC CGCCCTTGAAT CCAACGAGG AAAACCACCGTT 5280 5461 ATACCTGTC GTCAAAAGCAA CCATTAGTACC CGCCCTGTAG CGCCCCTAGCG CCCGCTCCTT 5280 5461 ATACCTGCTC GTCAAAAGCAA CCATTAGTACC CGCCCTGTAG CGCCCCTAGCG CCCCCTAGATC 5540 5521 GTGTGGTGGT TACGCGCAGC GTGACCGCTA CACTTGCCAG CGCCCCTAGCG CCCCCTAGATC 5520 5761 CGCTTTCTCT CCCTTCCTTT CTCGCCCACGT TCGCCCGGCTT CCCCCGCCCA AAAAAAACTTG 5700 5581 TCGCTTTCTCC TTTAAGGGTTC CGATTTAGTG CTTTAAGGATA GACCGCTTTTCA 5700 5581 GTGTGGAGTC CACCGTT AGTGGGGCCAT CGCCCTGTACA GACCGCTCTAAC 52820 5761 CGTTGGAGTC CACCGTT AGTAGTGGACCA CTCTTGATCAACC 5820 5761 CGTTGGAGTC CACCGTTT AATAGTGGACCA CTTTATCTCCA AACTGGAACA CCACCATCAAA 5880 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTTGCC GATTTCGAACC ACACCACTACAA 5880 5821 CTATCTCGGG CTATTCCTTT GATTTATAAG GGATTTTGCC GATTTCGCAAC TCTCTCAAGG 5940 5821 CTATCTCGGG CTATCCTTT AATAGTGGACCA CTGCTCGCAAC TCTCTCACGCG 6000 5841 CCAGGCGCCCAAT ACCCAAACCGC CCTCTCCCCC CGTCTCGCGC GATTCATTAA TGCAGCTGGC 6050 6001 GGCGCCCAAT ACCCAAACCGC CCTCTCCCCC CGTCTCCCCC GGCGTAGACTAAT TAAT	5221 TACTAGATATI ACCAGGATATAGA AGAGATTTC TAAATTTGGGT GATGGACAGA CLOTTATA 2400 5221 TACTAATCAA AGAAGTTTATA AAAACACTTC TCAAAGATTCT GGGTACCGA TCGGTTCTATA 2460 5401 AATACCTCTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGAT TCAAACGAG AAAGCAACGTT 5460 5401 AATACCTCTTC GTCAAAGCAA CCATAGTACC CGCCTCTGAT TCAAACGAGAG AAACACACCTTCT 5580 5401 AATACCTGCTC GTCAAAACCAC CTGTTAGCTC CGCCTCTGAT TCACACGAGG CCCGCTCCTT 5580 5521 GTGTGGTGGT TACGCGCAGG GTGACCGCTA CACTTGCCAG CCCCTAAGC CCCGCTCCTT 5760 5521 TCGCTTTCTT CTCGCCACGGT TCGCCGGGCT TCCCCGTCAA GCCTCTAAATC 5700 5581 TCGCTTTCTT CTCTCCCCACGGT TCGCCGGGCT TCCCCGACCCC AAAAAACTTTG 5700 5581 TCGCTTTCTT CTCTCCCCACGGT TCGCCGGGCT TCCCCGACCCC AAAAAACTTTG 5700 5581 TCGCTTTCTT CTCTCCCCACGGT TCGCCGGGTT TCCCCGACCCC AAAAAACTTTG 5700 5581 TCGCTTTCTT AAATAGTGGAC TCTTGTTCCA AACTGGAACA ACACCCTCAACC 5820 5761 ATTTGGGATC CACGGTTCTTTT AAATAGTGGAC TCTTGTTCCA AACTGGAAACAA ACACCACCATCAAC 5820 5761 CGTTGGAGT CACGGTTCTTTT AAATAGTGGAC CCGCTTCGCCAC GATTTCGGAA CCACCCATCAAC 5820 5761 CGTTGGAGT CACGGTTCTTTT AAATAGTGGAC CGTTCCGCAAC TCTCTCAGGAC 5940 5821 CTATCTCCGG CTATCTTTT AAATAGTGGAC CGTTGGCCC GATTTCGGAA CCACCACTCAAC 5820 5761 CGTTGGAATA AGGCCAATC AGCTTGTCCCCG CGCGTTGGCC GATTTCTTCAACAC 5820 5821 CTATCTCCGGACTG GAAACCAC CGTTCCCCG CGCGTTGGCC GATTCATTAAT TGCACCTGG 6000 5821 CACGGCCCAAT AGGCCAATC AGCTTGTCCCCG CGCGTTGGCC GATTCATTAAT TACAACCTG 6000 5941 CCAGGCGCCAAT AGGCCAATCAC AGCTTGTCCCG GGCAATTAAT AGCAGAGAAC 6320 601 GACGACAGGTT TCCCGACTGG AAAGCGGCC CATTTCCTCCG GGCAATTAAT AGCAACAGAC 6320 6021 TCACTCATTA GGCCACCCAG GCTTTACCCCTT TATGTCACAC GAGAAAAACC 6320 6121 TCACTCATTA GGCCATCAGAC GTTACCCCAG GTTACCCCTG TGCCC AAATAATTAAT GACAGCAGAC 6320 6121 TCACTCATTA GGCCATCAGAC TTCTCCAGACCCT TTCTCACAC GAGAAAAACC 6320 6121 TCACTCATTA GCCCTTCGGCAC GTTACCCCAG GGGAAAAACCCCT TACACCGTT TCACCGCTA TACACCTTTTCC GAGAAAACC 6320 6121 TCACTCATTA GCCCTTCGGCAC TTCTCCAGAGCCT ATTGTCACAC GAGAAAAACC 6320 6361 GCCCCAACAGAC CACGCTTTCC GGCCAATTAATTCAAT AGTTTAACCACTA CACGATACCACACACACACACACACACACACACACACACA
5281 TACTAGATAT ACCAGCAAGG CEGATAGTTT GAGTTCTTCT ACITGAGACAGA CICTITIACT 53400 5281 TACTAATCAA AGAACTATIG CTACAAACGGT TAATTITGCGT GATGGACAGA CICTITIACT 53400 5281 TACTAATCAA AGAACTATIG CTACAAACGGT TAATTITGCGT GATGGACAGAG CACTGATTAGT 54600 5341 CAGTGGCCTC ACTGATTATA AAAACACTTC CCGCTCTGAT GCCAACGAGG AACCACGTT 54600 5461 ATACCTGCTC ATCGACACCAC CTGATAGCTC CCGCTCTGAT GCCAACGAGGAGA AACCACGTT 54600 5461 ATACCTGCTC GTCAAAGCAA CCATACTACTAC CCGCTCTGAT TCCCACAGGAGG AACAACACTC TS580 5461 ATACCTGCTC GTCAAAGCAA CCATACTACTAC CCGCTCTGAT CCGCCCTCAAA GCGCCCTAAAATC 56400 5521 GTGTGGTGGT TACGGCCAGC GTGACCACCA CCGCCTCAGCG CCGCCTAAAACCCACCACCACCACCACCACCACCACCACCACC	5261 TCTGGATATI ACCAGACAGG CCGATAGTTT GAGTTCTTCT ACIGGACAGA CUCTIVIACT 53400 5281 TACTAGCACAGG CCGATAGTT GAGTAGCAGG CTGGATGGACGGAGAG CCCTTTGCT AS 400 5281 TACTAGCTCT ACTGGATTATA AAAACACTTC TCAAGATTCT GCGAGGAGG ACAGCAGT 5460 5241 CGGTGGCCTC ACTGGATTATA AAAACACTTC TCAAGATTCT GCGAGGAGG ACAGCAGT 5460 5461 ATACCTGCTC ATCGACACAC CCATAGTACT CCGCTCTGAT CCGACAGAGG ACAGCACGTT 5460 5461 ATACCTGCTC GTCAAAGCAA CCATAGTACT CCGCTCTGAT CCGCACGATTA ACCGCCCTT 5580 5461 ATACCTGCTC GTCAAAGCAA CCATAGTACT CCGCCTCTGAT TCCCCACGCATTA ACCGCCCTTAAAATC 5640 5521 GTGTGGTGGT TACGCCACAGC GTGACCACCA CCGCCCTCAAG CGCCCTCAAG CGCCCTAAAACCTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCCACGCT TCCCCCCCCAA ACATAGCACC AAAAAACTTG 5700 5581 GGGGCCTCC TTTAGGGTTC CCATTTAGGTTC CCGCCTTGATAA GCGCCTCAAAACCACTCAACC 5820 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGGCCAT CGCCCTGATAA ACACTCCAACC 5820 5761 CGTTGGAGC CACGTTCTTT AATAGTGGGACCAT CCCCTGATAA ACACTCAACC 5820 5761 CGTTGGAGC CACGTTCTTT GATTAGTAGAA GGATTTTGCCA AACTGGAACA CCCCTTAAA 5760 5821 CTATCTCGGC CTATTCTTT GATTATAAA GGATTTTGCC AACTTGGAAC CTCTCAACA 5880 5821 CTATCTTGGG CAAACCAC CCTCTCCCCC CGCTTTGGCCACAC CTCCTCAAGG 5940 5821 CCAGGCCCAAT ACCCAAACCC CCTCTCCCCC CGCTTTGGCC GTGAAAAAAAAACAC CGCCCTGAACCAC CTCACACACCCC 6000 5941 CCAGGCCCAAT ACCCAAACCC CCTCTCCCCC CGCTTTGGCC GTGAAAAAAAAAA	5281 TACTAGATAT ACCAGCAAGG CEGATAGTTT GAGTTCTTCT ACITGAGACAGA CICTITIACT 53400 5281 TACTAATCAA AGAACTATIG CTACAAACGGT TAATTITGCGT GATGGACAGA CICTITIACT 53400 5281 TACTAATCAA AGAACTATIG CTACAAACGGT TAATTITGCGT GATGGACAGAG CACTGATTAGT 54600 5341 CAGTGGCCTC ACTGATTATA AAAACACTTC CCGCTCTGAT GCCAACGAGG AACCACGTT 54600 5461 ATACCTGCTC ATCGACACCAC CTGATAGCTC CCGCTCTGAT GCCAACGAGGAGA AACCACGTT 54600 5461 ATACCTGCTC GTCAAAGCAA CCATACTACTAC CCGCTCTGAT TCCCACAGGAGG AACAACACTC TS580 5461 ATACCTGCTC GTCAAAGCAA CCATACTACTAC CCGCTCTGAT CCGCCCTCAAA GCGCCCTAAAATC 56400 5521 GTGTGGTGGT TACGGCCAGC GTGACCACCA CCGCCTCAGCG CCGCCTAAAACCCACCACCACCACCACCACCACCACCACCACC	5281 TACTGGATATT ACCAGCAAGG CCGATAGCTT GAGTTCTTCT ACITGGAGAGA CTCTTTACT 5340 5281 TACTAATCAA AGAAGTATIG CTACAACGGT TAATTIGCGT GATGGACAGA CTCTTTACT 5400 5281 TACTAATCAA AGAAGTATIG CTACAACGGT TAATTIGCGT GATGGACAGA CTCTGATTA AGAACCACTT TAAATTIGCGT GATGGACAGA ACCCGTTCTAA 5400 5241 CGGTGGCCC ACTGATTAA AAAACCACTTC TCAAGATTCT GGCGTACCGT AAGCGCGCGGG 5520 5461 ATACCTGTTA ATCGGCCCCC TGTTTAGCTC CCGCTCTGAT CCCAAGAGAGA AAGCCACGGT 5460 5521 GTGTGGTTCTT ACCGCACCGT TGCACCACCACTACACCCCCCAAGCACCCCCCAAACAACACTTC 5700 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCACGGTT TCCCCCGCCCAAAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCACGGTT TCCCCCACAACACAA	5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGGGT GATGACAGA CTCTTTTATT 5240 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGGGT GATGACAGA CTCTTTTATT 5400 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGGGT GATGACAGA CTCTTTATA 5400 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGGGT GATGACAGA CTCTTATA 5400 5281 CACTAATCATTAA AAAACACTTC TCAAGATTCT GGCCTACAGGT TACCGCCGT 5280 5401 AATACGTGCTC GTCAAAACAA CCATAGTAGTAC CGCCCTTAGA CGGCCCTAAGAC CCCCGCTCTCT 5580 5401 ATACGTGCTC GTCAAAACAA CCATAGTAGTAC CGCCCTTAGA CGGCCCTTAGAC CCCCGTCTCT 5580 5521 GTGTGGTGGT TACGCCAAGC CGGACCAGT CACTTGCCAAG CGCCCTTAAATC 5640 5521 GTGTGGTGGT TACGCCAAGC CGGACCAGT CACTTGCCAAG CGCCCTTAAATC 5640 5521 GTGTGGTGGT TAGCGCCAAGC TCACTTAGAGT CACTTGCCAAG CGCCCTTAAAC CSCCCC 5640 5581 CGCCTTATCTT CCCTTCCTTT CTCGCCACCGT TCGCCACGGT CTTCCCCGCACCC CAAAAAAACTT 5700 5641 GGGGGCTCCC TTTAGGGTT CGGCTACAGT TAGCCCAGT CACTCTAAAC 5760 5701 ATTTGGGTGA TGGTTCACGT AGTGGGGCCAT CGCCCTGAAA ACAACTCAAAC CSCCCCTTTAGA 5760 5721 ATTTGGGTGG CTATTTTTTT AATAGTGGAC TCTTTTTTCCA AACTGGAACAA CCACCATCAAC 5820 5721 CTATCTCGGG CTATTTTTTT AATAGTGGAC CGGTTTGCC CGCTTGCAACA CACCACTCACA 5820 5721 CTATCTCGGG CTATTTTTTT AATAGTTGGAC CGCTTGGCC GATTCATTAA TGCAGGTAAC 5820 5721 CTATCTCGGG CTATTCTTTT AATAGTTGGAC CTGCTTGCCC GATTCATTAA TGCAGGTTAAC 6820 5721 CTATCTCGGG CTATTTTTTTT AATAGTTGGAC CGCTTTGCCC CGCTTGCTCACAC TAGCGAAC TCACCCCC 6000 5721 CTACCTCGGC CAAACACACC CGCCTGCTGCCC CGCTTGCTCCACC CGCCTTGGTGCC CGCTTCACTCATA AGCCAAAAACAC CCCCCAGACCACACTATTACACT TAATCACTAC TAATCACTAC TAACCACACACA	5221 TTGGGATATI ACCAGGCAGG COGATAGTTT GAGTTCTTCT ACLCAGGCAGA CICTITIACT 5240 5221 TTGGGATATI ACCAGCAGGG COGATAGTTT TAATITGGT GAGGCAGAA CICTITIACT 5240 5231 TACTAATCAA AGAAGTATTG CTACAACGGT TAATITGGT GAGGCAGAA CICTITIACT 5400 5241 CAGTGGCCTC ACTGATTATA AGAACCACTC TCAAGATTCT GAGCATCGT TAAAGCACGTT 5460 5241 CAGTGGCTC ACTGATTATA AGAACCACTC TCAAGATTCT GAGCATCAA AGCAGCGT 5520 5401 AATCCCTTTA ATCGGCTTCC TGTTTAGCTC CGGCCTCTGAT TCCAACGAGG CCCCGCTCCTT 5580 5401 AATCCGTTCT TAAACCACCACCAC TGGACCACCAC CGCCCTTAGC CCCCGCTCCCT 5580 5521 GTGTGGTGGT TACCGCCACCAC CGGACCAC CACCCACCAC CCCCGCTCCACACCCC CAAAAAACTTG 5540 5521 GTGTGGTGGT TACCGCCACCAC CGGACCCC CAAAAAAACTTG 5540 5521 GTGTGGTGGT TACCGCCACCAC CAGCACCCC CAAAAAAACTTG 5700 5541 GGGGGCTCCC TTTAGGGGTTC CGATTTAGTG CTTTACCGCAC CCTCGGACCCC CAAAAAAACTTG 5700 5541 GGGGGGCTCCC TTTAGGGGTTC CGATTTAGTGG CATTTAGACCCCCTGAACC AAACCACCACCAACAACCCCCCACACCACCAACAA	5221 TCTGGATAT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACLCAGGCAGA CTCTTTACT 5240 5221 TCTGGATAT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACLCAGGCAGA CTCTTTACT 5240 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGGTT GAGGTACCGT TCCTGCTTAA 5400 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGGTT GAGGTACCGT TCCTGCTTAA 5400 5281 CGGTGGCCTC ACCTGATTATA AAAACCACTTC TCAAGATTTG GGGCGATTAA AAGCACGGT 5520 5401 AATCCCTTTAA ATCGGCCTCC TGTTTAGCTC CGCCCTTGAT TCCAACAGAGG CCCCGCTCTCT 5580 5401 AATCCCTTTAA ATCGGCCAGC CTAGCCAGC CGCCCTCTAGC CGCCCTTAAATC 5540 5521 TCGCTTTCTT CCCCTTCCTTT CTCGCCAGCCGC CCCCGTCCAA CCCCCTCAAATC 5540 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCAGCCGC TTCCCCGTCAA CACAAAAACTTG 5700 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCAGCT CTTTACGGCACCC ACCCGCACCCC CAAAAAAACTTG 5700 5521 TCGCTTTCTT CCCTTCCTTT AATAGTGCGCCCTTGATA GACGGCTTTTCGCCCTTTAAATC 5580 5521 CGTTGGGTGA TGGTTCACCGT ACTGGGCCACC CTCGCTCAACCC ACCACCACCAA CACACCACCACCACCACCAACCACC	5221 TCTGGATATH ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGLAAA CTCTTTTACT 5240 5221 TCTGGATATH ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GAGTACCGGT TCCTGCTCAA 5400 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GAGGACAGA CTCTTTTACT 5400 5281 TACTAATCAA AGGAAGTATTG CTACAACGGT TAATTTGCGT GAGGACAGA CTCTTTACTA 5400 5281 CGGTGGCCTC ACCAGAACCAGT TCAAGATTCT GAGGATTCAA AGCCAGCGT 5520 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CGCCTGTAG CGGCCATTA AAGCAGGGGGGG 5520 5401 AATCCCTTTCT TCCCTACAACCAGC GCCCCTGTAG CGCCCCTAAAATC 5540 5521 GTGTGGTGGT TACGCGCAAGC GACCAGCAGC GCCCCTAAAATC 5540 5521 GTGTGGTGGT TCCCTTCCTTT CTCGCCACCG TCCCCAGCCC CCTCGACCC GCCCCTAAAATC 5540 5521 TCGCTTTCTT CCCTTCCTTT CGGCCACCG TCCCCAGCCC CCTCGACCC GCCCCTAAAATC 5540 5521 TCGCTTTCTT TCCCTTCCTTT AATAGGGCCAT CGCCCTGATA GACGGCCCTTTCAAACC 5820 5761 CGTTGGGGTGA TGGTTCACCT ACGTCCACCT GACCACCAACCAGC CCCCCTGATA ACACCTCAACC 5820 5761 CGTTGGGGTGA TGGTTCACCT AATAGGGGCCAT CCCCCTGATA GACGGCTAACCA CACCACCACCCT 6600 5821 CTATCTCGGG CTATTCTTTT GATTTATAAG GGATTTTGCC GATTTCGGAAC TCCTCCCAGCC 6000 5831 ACAGGATTTT CCCCTGCTGG GACAACCAG CGTGGACCGC TTGCTGCAACC ACCCCT 66000 5841 CCAGGCGGGTG AAGGGAAACCAG CGTGGACCGC GATTCATTAA TGCAGCTGGC 6000 5841 CCAGGCGGGTG AAGGGAAACCAG CGTGGACCCC GATTCATTAA TGCAGCTGGC 6000 6001 GGGGCCCAAT ACCGCAAACCAG CCTCTCCCCG CGCTTTGCCC GATTTAATAT GTGAGGTTAGC 6120 6001 GGGGCCCAAT ACCGCAAACCAG CTTTACCCTT TATGCCTTCC GGCCCTCGTT TTACAACTT TTACACCCT TACACCT TTACACCT  TCCCAGAGAAACCA 63500 6241 GTGACTGGAA GACCACCACCACCT GGCCCCAGACCAGA
5161 TCAAAATSTA GGTATTTCCA TGAGGGTTII ICCIGIIGEA ACTCAGGGAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAGGG CCGATAGGTT TAATTTGCGT GATGGACAGA GTCTTTTACT 5340 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTACT 5400 5281 TCGTGGCTC ACTGGATTATA AAAACCACTTC TCAAAGATCTT GGGGTACCGT ACCGGTCTAA 5400 5281 TCGTGCCTT ACTGGCCTC TGTTTAGGTC CGGCCTTGAT TGCCAACGAGGA AAAGCACGTT 5520 5401 AATCCCTTTA ATCGGCCTC TGTTTAGGTC CGGCCTTGAT TGCCAACGAGGA AAACACTTC 5580 5401 AATCCCTTTA ATCGGCCACC GTGACCGCTA CACTGGCCAG CGCCCTAGGAG CCCGCTCCTT 5580 5401 AATCCCTTTCT CCCTTCCTT CCCTTCCTT CCCTTCCTT	11 TCAAAATGTA GGTATTTCCA TGAGGGTTTT LUCTGTIGGAT ACTCAGGGCAA GTGCATGTTAT 5280 5221 TCTGGATATT ACCAGCAGGG CCGATAGGTT TAATTTGCGT GATGGACAGA GTCTTTTACT 5340 5281 TCATAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT 5340 5281 TCATAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT 5340 5281 TCACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGAG ACTCCTTTACT 5340 5281 TCACTAGCATA ACGACCCC TGTTTAGCTC CCGCTCTTGAT TCCAACGAGGA AAAGCACGTT 5520 5401 AATCCCTTTA ATCGGCCAGC GTGACCCGCTA CACTGGCCAG CGCCCTAGGG CCCGCTCCTT 5580 5401 AATCCGTTTACT CCTTCCTTT CATAGGGTA AAAAAACTC 5520 5521 ATTGGGGGAT TGCCCGAGG TGGCCCACGT TCCCCGGCTTAAA GACGGGTTTTT CACCCCCTTTAAGCT AGTGGGGCCAT CGCCCTGAAA AACACCCCCTTAAACC 5820 5701 ATTTGGGTGA TGGTTCAGT AATGGGGGCCAT CGCCCTGAAA AACACCCCCTTAAACC 5820 5701 ATTTGGGTGA TGGTTCAGT AATGGGGGCCAT CGCCCTGAAA AACACCACCACTCAAACA 5820 5701 ATTTGGGTGA TAGCTACGT AAGTGGGGCCAT CGCCCTGAAACA ACACTCAACCACCT 5820 5701 AAAAAACACTTT CGCCTGCTGG GGCAAACCAC CGTCGACCGC GATTCAATAA TGCAGCTGGC 6000 5881 ACAGGATTTT CGCCTGCTGG GGCAAACCAC GGGTTGGCC GATTCAATAA TGCAGCTGGC 6000 5881 ACAGGACTGTT AACGACACCG CTCTCCCCCG CGGTTGGCC GATTCAATAA TGCAGCTGGC 6000 6001 GGCGCCCAAT AGGCAACCCG CTCTCCCCCG CGGGTTGGCC GATTCAATAA TGTGAGACTAGC 63200 6001 GGCGCCCAAT AGGCAACCCC AGG CTTTACCCAAG CTTTGGCC ACTTGGCCAAATTAAT TGTGGTGGAA CACCCCCAG GCCCCACGAC GACCCCCAATTAAGCC CACCACGAC GATAACAACACCG CTCTCACCCG GACCCCAAATTAAAT TCAACCACACGCT TACCCAAACTACC CACCACGAC GATACCACCACCAC GGCAAATTAAACACCACCCT CACCACACACGAC TACCACCACAC GACCACACACACACACACACACACACACA	5161 TCAAAATSTA GGTATTTCCA TGAGGGTTII ICCIGIIGEA ACTCAGGGAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAGGG CCGATAGGTT TAATTTGCGT GATGGACAGA GTCTTTTACT 5340 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTACT 5400 5281 TCGTGGCTC ACTGGATTATA AAAACCACTTC TCAAAGATCTT GGGGTACCGT ACCGGTCTAA 5400 5281 TCGTGCCTT ACTGGCCTC TGTTTAGGTC CGGCCTTGAT TGCCAACGAGGA AAAGCACGTT 5520 5401 AATCCCTTTA ATCGGCCTC TGTTTAGGTC CGGCCTTGAT TGCCAACGAGGA AAACACTTC 5580 5401 AATCCCTTTA ATCGGCCACC GTGACCGCTA CACTGGCCAG CGCCCTAGGAG CCCGCTCCTT 5580 5401 AATCCCTTTCT CCCTTCCTT CCCTTCCTT CCCTTCCTT	5161 TCAAAATIGTA GGTATTTCCA TGAGGGTTII LCCIGITGA ACTCAGGGAA GTGATGTTAT 5280 5221 TCTGGATATTA ACCAGCAAGG CCGATAGGTT TAATTTGCGT GATGGACAGA GTCTTTTACT 5340 5281 TACTTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT 5340 5281 TACTTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT 5340 5281 TACTTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGAG CTCTTTACT 5400 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGGTC CGCCTGTAT GGGGTACGG CCCGCGGGGG5520 5401 AATCCGTTTAA ATCGGCCAGC GTGACCCGCTA CACTGGCCAG GGGCCTTAGA GGGCGGGGGG5520 5401 AATCCGTTTCTT CCCTTCCTTT CTGCCACGCTA TCCCCGCTGTAG CGGCGCTACAG CCCCTCATT 5580 5521 GTGTGGTGGT TACGGCAGC GTGACCCGCTA CACTGGCCAG GGCCCTGAAA AGCGCCGTT 5580 5521 GTGTGGGTGT TCCCTTCCTTT CCCTTCCTTT CCTTTCCTTT CCCTTCCTTT CCCTTCCTTT CCCTTCCTTT CCCTTCCTTT CCCTTCCTTT CCCTTCCTTT CACTTCCTT CCCTTCCTT	5161 TCAAAATETA GGTATTTCCA TGAGGGTTTI LCCTGTIGGA A GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTTTTGCGT GATGGACAGA GTGATGTTAT 52400 5221 TCTGGATATTA ACCAGCAAGG CCGATAGTTT TAATTTGCGT GATGGACAGA GTGATGTTAA 5400 5221 TCTGGATATTA ACCAGCATGTTATA AAAACACTTC TCAAAGTTTT GGGCTACCGT TAATTTACT 5340 5241 CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAAGTTTT GGCGTACCGGCTTAGGC CCCCGCTTCAA 5400 5401 AATCCCTTTA ATCGGCCTCC TCTTTAGCTC CCGCCTCTGAT TCCAAAGGAGG AAAGCACGGT 5520 5401 AATCCTTTA ATCGGCCTCC TCTTTAGCTC CCGCCTCTGAT TCCAAAGCAG AAAACCTGC 5520 5401 AATCCTTTCTT CCCTTCCTTT CTCGCCGCTT CCCTGCAG CGCCCTAGAG ACCCCCCAAACTG 5520 5401 AATCCTTTCTT CCCTTCCTTT CTCGCCAGCT TCGCCGCCTTAGC CCCCCGCTCAGC CCCCGCTCAGC CCCCGCTCCTT 5580 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCAGCT TCGCCGGCTT TCCCCGTCAA GCCCCTAAATC 5540 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCAGCT TCGCCGGCTT TCCCCGCTCAA GCCCCTAAACCG CGCCCTAAACCG CGCCCTAAAACCACCCC AACCTCAACC 5820 5761 CGTTGGAGTC TCACGTTCTTT AATGGGAC TCTTCTCAA AACTGGAACA CACACCAACCACCACCACAACCAG CGCCCTCAAAACCAG CGCCCTAAACCAG CGCCCTAAACCAG CACACCACCAACCAACCACCACCACAACCAG CGCCCTAATTAGC GAAACCAACCACCTCTTTT AAAACAACTA ACCACAACCACCACCACAACCAG CGTGGAACCAG CGCATTTCGAACCAACCACCACCACAACCAG CGTGGAACCAA CACACCAACCACCACCACCAACCAG CGTGGAACCAA CACACCAACCACCACCACACCA	161 TCANAATGTA GGTATTTCCA TGAGGGTTTI ICCIGITGCA ACTGGGCAA GTGATGTTAT 5280 2221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTTCTCT ACTCAGGCAA GTGATGTTAT 5340 2221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTTCTCT ACTCAGGCAA GTGATGTACAT 5340 2221 TCTGGATTATA AGAAGCACTTC TCACAACGGT TAATTTCCGT GATGGACAGA CTCTTTTACT 5340 2231 TACTAATCAA AGAAGCATTATA AAAACACTTC TCAAGATTCT GGGCACACGGT TCCTGCTTA 5400 2341 CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GGGCACAGG AAAGCACGTT 5520 2461 AATACGTGCTC GTCAAAAGCAA CCATAGCAAC CGGCCCTGGAT TCCCAACGAGG AAAGCACGTT 5580 2461 ATACGTGCTC GTCAAAAGCAA CCATAGCAAC CGGCCCTGGA CGCCCTAAGG CCCCTAAGAC CCCTAAGATC 5580 2521 GTGTGGTGT TACGCGCACAGC GTGACCGCTA CACTGGCAG CGCCCTAAGA CCCGACCTATGA 5700 2521 GTGTGGTGT TACCCTTCCTTT CCCTCCCTCTT CCCCCACGT TCCCCGCCTCAA CACTGGCACA CACTAAAACAACTTG 5700 2521 GTGTGGTGT TACCCTTCCTTT CGACTTTAAGTG CTTTACGGCA CCCCTAAGA CACACTACAACC 5820 2521 ATTTGGGACA TGGTTCACGT AGTGGGCCAT CGCCCTGATA AACTGGAACA ACACTCAAACC 5820 2521 ATTTGGGATAT CACGTTCTTT GATTTATAG CGCCCTTTCCA AACTGGAACA ACACTCAACC 5820 2521 ATTTGGGAC TATTCTTTT GATTTATAG GGATTTTCCA AACTGGAACCACCCT GGOCCACACCACCACCACCCT GGOCOACACCAC CGCCTTCGCC CGCTTTCCCA AACCAG CTGAAACCAG CTAATCATAA TACACCACCACCACCACCACCACCACCACCACCACCACCA	11 IRAGARATETA GGTATTICCA TGAGGGTTII ICCIGIGGA AGTGAGGGTAGTTAT 3240  5221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTGTCTC ACTCAGGCAA GTGATGTTAT 5340  5221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTGTCTC ACTCAGGCAGA CTCTTTTACT 5340  5231 CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GGCGAGAGG AAAGCACGTT 5460  5461 AATACGTGCTC GTCAAAAGCAA CCATAGTACG GGCCCTGGAT CCCAACGAGG AAAGCACGTT 5580  5461 AATACGTGCTC GTCAAAAGCAA CCATAGTACG CGCCCTGGAT CCCCAGGG CGCGGGGGGGGGG	11 ICAGARATETA GETATTICCA TGAGGGTT11 ICCIGITGCA ACTICAGGGAA GTGATGTTAT 5240 5221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTGTTCT ACTICAGGGAA GTGATGTTAT 5340 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT 5340 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GGCGTACCGGT CCTGCTCAACGGGT 5520 5341 CGGTGGCCTC ACTGATTATA AAAACACTTC TCACAACGAGT TCCAACGAGG AAAGCACGTT 5460 5341 CGGTGGCCTC GTCAAAGCAA CCATAGTACG CGCCTTGAT TCCAACGAGG AAAGCACGTT 5580 5461 ATACGTGSCTC GTCAAAGCAA CCATAGTACG CGCCTTGAT TCCACGGGCAT AAGCGGGGCGG 5520 5461 ATACGTGSCT TACGGGGCAAC CTGATTAGCTC CGCCTCTGAT TCCCCGGCTAACAT CCCCCCTTAGACGCA GCCCCTAACAG CCCCTTAAAACAACTTG 5700 5521 GTGTGGTGGT TACGCGGCAAC CGACTTTAGTT TCCACCGACCC TTCCAACAGAAAAAACTTG 5700 5581 TCCCTTTCTT CCCCTCCTTT TAATTAGTG CTTTTACGGCA CCCCCTAACAC AAAAAAACTTG 5700 5581 GGGGGCTCCC TTTAGGGTTC CACTTTAGTG CTTTTACGGCA CCCCCTGATA GCCCCTTTTGA 5780 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC CTTTGTTCCA AACTGGAACA CACCCAACAC 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC CTTTGTTCCA AACTGGAACAA ACACTCAACC 5880 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC CTTTGTTCCA AACTGGAACAA CACCCACCACAC 5880 5761 CGTTGGAGTT CACGTCCATT AATAGTGGAC CTTTGTTCCA AACTGGAACAA CACCCACCACACAAC ACACTCAAC 5880 5761 CGTTGGAGTT CACGTCCCGA GGCTGACCGT TGCTTCCACGA CCACTCACACACAC 5880 5761 CGTTGGAGTT CCCCCAATC AACGTGTCCC CGCCTTGCACC TTGCTGCAAAAAAAACCACCC TGCCCCTGATAC TTAATTAA TGCAGCTGGC GOOD 5941 CCAAGGCGTT ACCCCAAATC AACGTGTGCC CGCCTTTACACTT TAATTACATTAA TGCAGCTGGC GOOD 5941 CCAAGGCGTT TCCCCCAATC AACGCGACACCA TCACTCATTAA TGCAACACACCT TAATGCTTCC GGCCTTCTTCTCCCG CGCCTTTACACTT TAATGCTTCATTAA TGCAGCTGGC GOOD 6001 ACGACAGGTT TCCCCCAATC AACGCGGACACCATTAATTTCAATTAA TGCAGCTGGC GATATGATTAATTAA TGCAGCTGGC GATAGATAGAT AACCCACACTCAATTC GGCCGCCCCAATCAATTC GGCCGCCCCAATCAACTCAAC
501 TACTGGTCGT GTGACTGGTG AAIC IGLCAA IGLACATCTCT ACTGGGCAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTGAGGCAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTGAGGCAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTGAGGCAA GTGATGTTAT 5340 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GATGACAGAG CTCTTTTACT 5340 5241 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCTG GATGACCGT TCCTGCTAA 5400 5341 CAGTGGGCCTCA ACTGATTATA AAAACACACTTC TCAAGATTCT GGCGTACCGT ACCGGCTCTTT 5340 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCCTGTAT GACGCGACCG CCCCCGATACCG CCCGGCTCCTT 5580 5401 AATCGTGCTC TACGCCACGC GTGACCGCTA CACCTTGCCAG CGCCCTAAGC CCCCGGCTCCTT 5580 5521 GTGTGGTGGT TACGCCCACGC GTGACCGCTA CACCTTGCCAG CCCCTAAGCC CCCGGCTCCTT 5580 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCCACGT TCGCCGGCTT TCCCCCGACCC AAAAAACTTG 5760 5541 GGGGGCTCCA TTTAGGGTTC CGATTTAGTG CTTTTTACGGCA CCCCCTGAA GCCCCTAACA 5760 5541 GGTGGAGCTC CACGTTCTTT GATTTAGTG CTTTTTAGGTC CTTTTTAGTCC CTTTTTAGGTC CACCTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTTTT	101 TACTGGTCGT GTGACTGGTG AAIC IGLCAA IGLAAGTGTGCA ATGGCTGCGG GTAATATTGI 5220 1101 TCGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGGATGTTT 5220 1221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGGATGTTT 5230 12221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGGATGTTT 5230 12321 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GATGGACAGA GTCGTTTTACT 5340 12321 TCTGGATATT ACCAGCAAGG TCACACTTC TCAAGATTCT GACGTACCGT TCCTGCTAA 5400 12341 CGGTGGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GACGACCGCT ACCGCTCTTT 5400 12341 CGGTGGGCCTC ACCGATAGACAA CCATAGATGAC CCCCCTGTAA GACGACCAAGTT AACCGCGCGCGC 5520 12341 AACCGCGCTTC TACGCGCACG GTGACCGCTT CGCCCTTGAT TCCCACCAA GCCCCCTAATC 5640 12521 GTGTGGTGGT TACGCGCACG GTGACCGCTT CGCCCGGCTT TCCCCCACACCA AAAAAACTTG 5760 12531 TCGCTTTCTT CCCTTCCTTT CTGGCCACGT TCGCCCGGCTT TCCCCCACACCA AAAAAACTTG 5760 12531 TCGCTTTCTT CCCTTCCTTT CTGGCCACGT TCGCCCGGCTT TCCCCCACACCA AAAAAACTTG 5760 12531 TCGCTTTCTT TCCTTCCTTT CAGTTCAGGCCACGCT TCGCCCCTTGATA GACGGTTTTC GCCCTTTGAA 5780 12531 TCGCTTTCTT TCGCCTCTTT AATAGTGGAC CTTGGTTCAAACAACAC CCCCTGAACAAACAACTG 5760 12531 CGTTGGAGCTC CACGTTCTTT AATAGTGGAC CTTGGTTCAAA AACTGGAAACAA CTACAACAACACACCCC CACAACAAACAACACACCCC CACAACA	501 TACTGGTCGT GTGACTGGTG AAIC IGLCAA IGLACATCTCT ACTGGGCAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTGAGGCAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTGAGGCAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTGAGGCAA GTGATGTTAT 5340 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GATGACAGAG CTCTTTTACT 5340 5241 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCTG GATGACCGT TCCTGCTAA 5400 5341 CAGTGGGCCTCA ACTGATTATA AAAACACACTTC TCAAGATTCT GGCGTACCGT ACCGGCTCTTT 5340 5401 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCCTGTAT GACGCGACCG CCCCCGATACCG CCCGGCTCCTT 5580 5401 AATCGTGCTC TACGCCACGC GTGACCGCTA CACCTTGCCAG CGCCCTAAGC CCCCGGCTCCTT 5580 5521 GTGTGGTGGT TACGCCCACGC GTGACCGCTA CACCTTGCCAG CCCCTAAGCC CCCGGCTCCTT 5580 5521 TCGCTTTCTT CCCTTCCTTT CTCGCCCACGT TCGCCGGCTT TCCCCCGACCC AAAAAACTTG 5760 5541 GGGGGCTCCA TTTAGGGTTC CGATTTAGTG CTTTTTACGGCA CCCCCTGAA GCCCCTAACA 5760 5541 GGTGGAGCTC CACGTTCTTT GATTTAGTG CTTTTTAGGTC CTTTTTAGTCC CTTTTTAGGTC CACCTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTAGTCC CTTTTTTTTTT	501 TACTGGTCGT GTGACTGGTG AATCIGCCAA 191AAGTGCA ATGCCTGCGG GTAATATTGI 5280 5161 TCAAAATGTA GGTATTTCCA TGAGGGTTTT TGAGGTCATA GTGAGGTAA GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATGTTAT 5280 5281 TACTAATCAA AGAAGTATIG CTACAACGGT TACTTTGCGT GATGACGGT TCTGTTAAACACGT TACTACAACGGT TACTGATACACGT ACTGATTATA AGAACACTTC TCAAGATTCT GGCGTACCGT ACGGT ACGGT F3460 5341 CGGTGGCCTC ACTGATTAA AGAACACTTC TCAAGATTCT GGCGTACCGT ACGGCGGGGG 5520 5461 ATACGTGTTAA ATGGGCTTC TGTTTAGCTC CCGCTCTGAT TCCAACGAGG GCCCCCTT 5580 5461 ATACGTGGTGGT TACGCCCAACACCATAGACCAC CCAACACACTC CCGCTCTAGAT TCCCACCAG CCCCCCCTT 5580 5521 GTGGTGTGT TACGCCCAACACCATAGACCAC CCAACACACCAC CAACAAACACTC 5700 5581 TCGCTTTCTT CCCTTCCTTC TCTGCCACCGT TCTGCCCAGCCC AAAAAACTTG 5700 5581 TCGCTTTCTT CCCTTCCTTT CAGTTTAATAGT CTTTAGCGCC AACCACACCAC	101 TACTGGTGTG GTGACTGGTG AATC IGCCAA 101ATATACA ATGGCTGGG GTAATATIGI >220 5161 TCAAAATGTA GGTATTTCCA TGAGGGGTTT TCCTGTTGA ATGGCTGGG GTAATATIGI >220 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATGTTAT 5340 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTTTACT 5340 5281 TACTAATCAA AGAAGTATTA AAAACACTTC TCAAGATTCT GGCGTACCGT AATGGCGCGGGG 5520 5341 CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GGCGTACCGT AAGCGCGCGGG 5520 5461 ATACCTGCTC ACCAAAGCAA CCATAGTATA AAAACACTTC TCAAGATTCT GGCGTACCGC TACAAGCAGT AACCGGCGCGG 5520 5461 ATACCTGCTC GTCAAAACCAA CCATAGTACAC CGCCCTTGAT TCCACAGGAGG AAAGCACGT 5540 5581 TCGCTTTCTT CCCTTCCTTT CTGCCCACGT TCGCCCACGCT TCCCCCCAAGCG CCCCCTCAAATC 5540 5581 TCGCTTTCTT CCCTTCCTTT CTGCCCACGT TCGCCCACGCT TCCCCCAAACACACTTG 5700 5581 TCGCTTCTT CCCTTCCTTT AATAGTGGAC CCTTGAATC GACCGCTAAATC 5820 5581 TCGCTTCTT CACGTACACT AATAGTGGCAC TCTTGACAACCACAACACACACACACACACACACACACAC	101 TACTGGTCGT GTGACTGGTG AATC IGCLAA 1917ACTA ATGGCTGGCG GTAATATTGI 2220 5161 TCAAAATGTA GGTATTTCCA TGAGGCGTTTT TCCTGTTGA ATGGCTGGCG GTGATGTTAT 5220 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATGTTAT 5240 5221 TACTGGATATT ACCAGCAAGG CTACAACGGT TAATTTGGCT GATGGACAGA CTCTTTTACT 5340 5231 TACTAATCAA AGAAAGTATTG CTACAACGGT TAATTTGGCT GATGGACAGA TCCTTTTACT 5460 5341 CGGTGGCCTC ACTGATTATA AAAAACACTTC TCAAGATTCT GGCGTACCGT TCCTGCTGA 5460 5341 CAATACCTTTA ACCAGCCTC TGTTTAGCTC CGGCTCTGAT TCCAAGAGGA AAAGCACAGTT 5460 5401 AATCCCTTTA ACCAGCACGC GTGACCGCTA CACCTTGACG CGCCCCTAGCG CCCCGTCACG CGCCGCTCAT 5580 5401 AATCCTTGCT GTCAAAGCAA CCATAGTACG CGCCCCTTAGCG CCCCCTTAGCG 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AND ADBRAGUES TO TARATATAT CANTITURED CONTINUADOR TO THE ACTION OF THE ACTION	2501 TATTCTTACG CITICAGGICA AARCTGCAAA 5101 TACTGGTCGT GTGACTGGICA AARCTGCAAA 5101 TACTGGTCGT GTGACTGGICA AARCTGCAAA 5101 TACTGGTCGT GTGACTGGICA AARCTGCAAA 5101 TACTGGATATT ACCAGCAAGG CCGATAGTTT CCTGTTGCA ATGGCTGACG GTGATGTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT CCTGTTGCA ATGGCTGACGA GTGATGTTAT 52400 5231 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTCTAAA 52400 52341 CACTAAATCAA AGAAGTATTG CTACAACGGT TAATTTGCGT GATGGACAGA CTCTTCTAAA 52400 52341 CACTAAATCAA AGAAGTATTAA AAAACACTT TCAAAGATCTT TCCAACGAGG AAAGCACGGT 52400 52541 CACTACAAA AGAAGTATTAA AAAAACACTT TCCAACGAGG AAAGCACGGT 52500 5261 AATCCCTTTAA ATGGGCCTCC TGTTTAGCTC CCGCTCTTAA CGGCCCATACA CCCCTTAAAAC 5261 GTGTGGTGGT TACCACCGCAGGC GTGACCCCCTAA CCCCTCACCCC AAAAAAACTTG 55700 5270 GTGTGGTGGT TACCGCCGCAGC GTGACCCCCTAA CCCTCTACACC CAAAAAAACTTG 57700 5281 CGCCTTTCTT CCCTTCCTTT CTGCCCACGT TCCACCGCCTT TCCCCGTCAAA ACACCAAACC 5820 5291 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CCGCCCTCTATT TCCCACCAGCAG CCCCGCTCCTT 5580 5401 ATACGTGGTGGT TACGCCAGACCACGATTCACCCCGTTAGCT TCCCCCCTTCAGAGTCCGT AGCGCCGCCCC T5580 5401 ATACGTGGTGGT TACGCCCAGC GTGACCGCTA CACTTGCCCAG CGCCCTAAGAG CCCCCCTCTAGAGC CCCCCCTCTAGAGC CCCCCCTCTAGAGC CCCCCCTCTAGAGC CCCCCCCCCC	### ### ### ### #### #################	4981 AGGGCTAILA GILLEGGL CATACAGG TO ATTOTACAGA CONTINUAGE 5150 SOLI TATTOTACAG CITTLAGGG 5150 SOLI TATTOTACAG CITTLAGGG ATCTIGCAA ATCTIGCAA ATCTIGCAA ATCTIGCAGA GATTIGAGAGAT TO ATCTIGAGAGA GTATATATT 5220 S161 TCAAAATAT CCATTICAGAGAGA CITTTAGAT 5220 S161 TCAAAATATA CCATTICAGAGAGA CICTTAGACAGAGAGA CICTTAGACAGAGAGA CICTTAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	4981 AGGGCTAILCA GILLGUGGT AGAAGGGTTC TATETCTGTT GGCCAGGAALS COATHOLOGIC 5160 5041 TATTCTTAGG CTTTCAGGTG AATCTGCCAA TGTAAATAATA CCATTTCAGA CGATTCAGA CGATTCAGA 5101 TACTGGTCGT GTGACTGGTG AATCTGCCAA TGTAAATAATA CCATTTCAGA GGATATATTGT 5220 5161 TCAAAATGTA GGTATTTCA TGAGGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5220 5161 TCAGAATGTA 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4981 AGGETTATCA GTTTCGGCCAT TAAAGACTAA IAGCCATCTTTTAGT 5100 5041 TATTCTTAGG CTTTCAGGTC AGAAGGGTTC TATTCCTGTT GGCCAGATGAGC GGATTGAGC 5160 5101 TACTGGTCGT GTGACTGGTG AAACTGCCAA TGTAAATAAT CCATTTCAGG CGATTGAGC 5160 5101 TACTGGTCGT GTGACTGGTG AAACTGCCAA TGTAAATAAT CCATTTCAGC GGAATAATTGT 5220 5101 TACTGGTCGT ACCAGCAAGG CCGATAGTTT TCCTGTTGCA ATGGAGCAG TGTATTATCT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTGTCA ACCAGGAGA GTGATTTATCT 5380 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTGTCA ACCAGGAGA CTCTTTTACT 53400 5341 CGGTGGCCCC ACTGATTAA GAAAGTATTG CTACAACGGT TAATTTGCT GATGACAGA CTCTTTTACT 53400 5341 CGGTGGCCCC ACTGATTAA GAAACACTTC TCACAACAGTCT TCACAACAGTCT TCACAACAGATCT TCACAACAGATCT TCACAACAGATCT TCACAACAGATCT 5580 53401 AAACCCCTTTATTAA GAAACACACTTC TCACAACAGATCT TCACACACGAGG AAACAACTCT 5580 5461 ATACGTGCTC ACTGAAACAAC CCATAGTACCAC CCCCCTGATA CGCCCCTTGAA GCCCCCTTCACACCC ACCACCACCACCA CCATAGTACACCACCACCACCACCACCACCACCACCACCACCACCA	4981 AGGETATICA STICÉGÉGAT TAAAGACTAA LAGULALITÉ GÉGÉGATATAC STIDUO 5041 TATTUTAGE CITTURGET CAGAGGET CAGAAGGET CAGAGGET CAGAGGET CAGAGGET STIDUO 5041 TATTURGE GIAATTATGE 5100 TACTAGGET GEGACTIGGE AATCTGECAA TOTAAATAAT CUATTURGE CGAATAGGET 5220 E101 TACTGGTTGE GIGACTIGGE AATCTGECAA TOTAAATAAT CATTURGE CGAATAGTT 5220 E101 TACTAGATATA ACCAGCAGGE CAGATAGTTT TOCTGTTGCA ATGGAGGAG CGATATTTC 5230 E101 TACTAGATATA ACCAGCAGGE CGATAGTTT GAGATTTT CACTGAGGAA GTGATTTACT 5230 E101 TACTAGATATA ACCAGCAGGE CGATAGTTT GAGATTTT AAAACACTTT CTAGAGATLT GATGGACGAG CTCTTTTTACT 53400 E101 TACTAGATCAA AGAAGTATTA AGAACACTTT CAGAGATLT TACTAGACCGG CAGAGGGG 5250 E101 CTGGATATA AGCAGCACACTC TACTAGACTCA CACTAGTACACTT TACTAGAGATLT AGCAGCAGG CAGAGGGG 5250 E101 CTGGATATA AGCAGCACACTC TACTAGACTC CAGAGATLT TACTAGAGT CACCACTAGAGATLT CAGAGATLT AGCAGCAGGGG 5250 E101 AATCCTTTA ATCGGCCTC CATTAGACCAC CCATAGACCAC CACCACCAGA CACTAGAGACAA CACTAGACACACTC TACGAGACGAC CACCACCAAGAACAACTG TACGAGCAGC GIGACCGCT CAGAGACCAC CACCACCAACAAACCAG CACCACCACACAACAACACCT CACCACCACCACCACCACCACCACCACCACCACCACCAC	4981 AGGETTATCA GTTTCGGCCAT TAAAGACTAA IAGCCATCTTTTAGT 5100 5041 TATTCTTAGG CTTTCAGGTC AGAAGGGTTC TATTCCTGTT GGCCAGATGAGC GGATTGAGC 5160 5101 TACTGGTCGT GTGACTGGTG AAACTGCCAA TGTAAATAAT CCATTTCAGG CGATTGAGC 5160 5101 TACTGGTCGT GTGACTGGTG AAACTGCCAA TGTAAATAAT CCATTTCAGC GGAATAATTGT 5220 5101 TACTGGTCGT ACCAGCAAGG CCGATAGTTT TCCTGTTGCA ATGGAGCAG TGTATTATCT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTGTCA ACCAGGAGA GTGATTTATCT 5380 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTGTCA ACCAGGAGA CTCTTTTACT 53400 5341 CGGTGGCCCC ACTGATTAA GAAAGTATTG CTACAACGGT TAATTTGCT GATGACAGA CTCTTTTACT 53400 5341 CGGTGGCCCC ACTGATTAA GAAACACTTC TCACAACAGTCT TCACAACAGTCT TCACAACAGATCT TCACAACAGATCT TCACAACAGATCT TCACAACAGATCT 5580 53401 AAACCCCTTTATTAA GAAACACACTTC TCACAACAGATCT TCACACACGAGG AAACAACTCT 5580 5461 ATACGTGCTC ACTGAAACAAC CCATAGTACCAC CCCCCTGATA CGCCCCTTGAA GCCCCCTTCACACCC ACCACCACCACCA CCATAGTACACCACCACCACCACCACCACCACCACCACCACCACCA	4981 AGGCTATTA GTTTCGGCCAT TAAAGACTAA IAGCUALUT GGCCAGAAYG TCCCTTTTAT 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGGTC TATCCTGTT GGCCAGAAYG TCCCTTTTACG 5160 5101 TACTGGTCGT GTGACTGGTG AATCTGCCAA TGTAAATAAT CCATTCAGA CGATTGAGC 5160 5101 TCAAAATGTA GGTATTTTACA TGAGGCTAT TGCTGTTGCA ACGCCAGGCG GTAATATTGT 5280 5101 TCAAAATGTA GGTATTTTACAG TGAGAGGTTT TGCTGTTGCA ACGCCAGGCG GTAATATTGC 5280 5281 TACTGATATAA AGAAGTATTG CTACAACGGT TACTATCTTTT TCCTTTCT ACTCAGGCAA GTCTGTTTACT 5340 5281 TACTAATACAA AGAAGTATTG CTACAACGGT TACTACAGAGTCT TCCAACGAGG CAAACACTTC TCAAACACTTC TCAAACACGGG GAAACACTTC TCACAACGTA TCCAGCCAGGG CAAACACTTC TCACAACACTC TCACAACACTC TCCAACACACTC TCCACACACTC	4981 AGGCTTATCA GTTCGCGCAT TAAAGACTAA IAGCCALUTE GGCCAGAATG TCCCTTTTAT 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTTC TATTAATAAT CCATTCAGA CGATTGAGC 5160 5101 TACTGGTCGG GTGACTGGTG AAACGGT TGTAAATAAT CCATTCAGA CGATATATTGT 5220 5101 TACTGGTCGG GTGACTGGTG AAACGGT TGTAAATAAT CCATTCAGA CGATATTTACT 5220 5101 TACTGGTCGG GTGACTTGGTG AAACGGTTT TCCTGTTGCA ACGGCGAACGTT TACTTTACT 5340 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT CCTGTTGCA ATGGCTGACAG CTCTTTTACT 5340 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT TCCTGTTGCA ATGGCACAG TCCTTTTACT 5400 52341 CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT TCCAACACGAG AAACACAGGT 5400 52341 CGGTGGCTC ACTGATTATA AAAACACTTC TCAAGACTTC TCCAACGAGG AAACACAGGT 5400 5240 AATCCCTTTA ATGGCCTCC CGTTTACACCCCCTTGCAAG CGCCCATACACACGT 5520 5401 AATCCCTTTAC ATCGGCCCACCC CGTTCACACCGCCAT CCCCCTCACCACACACACTC 5580 5521 GTGTGGTGGT TACGCCGCAGC GTGACCACCG CGCCCTTTACACCC CAACACACTC 5580 5521 GTGTGGTGGT TACGCCGCAGC GTGACCACCGT CCCCTGACCAC CCCCCCACCACACACACTCACAC 5700 5581 CGCCTTTCTC CCCTTCCTTT CTGCCCACGT TCCCCGCCCTT CCCCGCCCCC AAAAACACTC 5820 5701 ATTTGGGTC CAGTTCTTT AATAGTGGAC TCCTCGACCC CAACACACTCACA 5880 5701 CTATCTCCGG CTATTCTTTT AATAGTGGAC TCCTCGCACCC AAACACACCACCACCACCACCACCACCACCACCA	4981 AGGGCTATTA GTTCCAGGCAT TAAAGACTAA LAGCLATICH GCCAGAGAATG TCCCTTTTAT 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTTA TATTCTTGTGTCGCA ATGCTGGCG GTAATATTGT 5220 5101 TACTGGTCGT GTAACTGGTG AATCTGCCAA TGTAAATAAT CCATTTCAGA CGATTGAGCG 5100 5210 TACTGGTCGT ACTGAAGGC CCGATTAGTTT GAGTTCTTCA ATGCTGGCGA GTAATATTGT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATTAGTTT GAGTTCTTCA ATGCTGGCAGA CTCTTTTACT 5340 5221 TCTGGATATT ACCAGCAAGG CCGATTAGTTT GAGTTCTTC ACTCAAGAGA CTCTTTTACT 5340 5221 TCTGGATATTA ACCAGCAAGG CCGATTAGTTT GAGTTCTT ACTCAAGAGCAGA CTCTTTTACT 5400 5241 TACTAATCAAA AGAAGTATTG CTACAAGGGT TAATTTGCGT GATGGACAGA CTCTTTTACT 5400 5241 CAGTGGCCTC ACTGATTATA AAAACACTTC TCGAAGATTC GGCGTACGAT AACGGCGGGT 5220 5240 AATCCCTTTA ATCGGCCTCC TGTTTAGCTC CCGCTCTGTA TCCAAGGAGG AACAGAGCAGT 5400 5241 ATACCTGCTC GTCAAAGCAA CCATAGTAG GCGCCCTGAAG CGCCCCTAGCG CCCCGCTCCTT 5400 5241 ATACCTGCTC GTCAAAGCAA CCATAGTAG GCGCCCTGAAG CGCCCCTAGCG CCCCGCTCCTT 5400 5241 ATACCTGCTC CTTCCTTT CCTGCCACGT CCCCCGCTCTTT TCCCCAGCGCT TCCCCTTCCTT CCCTTCCTTT CCTTCCTTT CTGCCACGGT TCCCCCAG CCCCCGCAGC ACACAGAAAAACTTG 5700 5241 GGGGGCTCC TTAAGGGTTC CCGCTTTAGTG CCCCGCTTCTT CCCTCCCAGCG CTCCACCCC AAAAAAACTTG 5700 5241 GTGTGGTGGT CACCTCTTT AATAGGTGGAC TCTTTCCCCAA AACTGGAAC CCCCCCTCAACC 5820 52701 ATTTGGGTGC CTATACTCCTTT AATAGTGGAC CTTTTACACC AACTGGAAC CCCACCATCAAAC 52820 CTATACTCTTT AATAGTGGAC CTTTTACACC TACCTGGAAC CCCCTCAAGC CCCCACTCAACC 52821 CTATCTTCGGG CTATCTTTT AATAGTGGAC CCTCGCCCC GGATTCATTAA TGCAGCTGGC 6000 5241 CAGGCCCAAT ACCCAAACCC ACGTGGACCCC GGATTCATTAA TGCAGCTGC 6000 5241 CAGGCCCAAT ACCCAAACCC ACGTGGACCCC GGATTCATTAA TGCAGCTGC GCCCCAATCACCC CGCATTCATTAA TGCAGCTGCAC CCCACGCACCCCAGG CCCCAATTCACCC CGCCCCCAGG CCCCAATTCACGCT TCACCGC GGCACCCCAGG CCCCAATTCACGCT TCACCGCCCCAGG CCCCAATTCACGCT TCACCGCCCCCCCCCC	4981 AGGGCTATTA GTTCAGGTT TAAAGACTAA LAGCLUTICE GCCAGAAATG TCCTTTTAT 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTT TATTCTTTGT GCCAGAAATG CGATTGAGGG 5100 5101 TACTGGTCGT GTGACTGGTG AATCTGGCAA TGTGAGACATGA TGGATGGCG GAATGATTTGT 5220 5101 TACTGGATATT GGTAATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTTCTTC GGCGTACGCT TACTTTACT 5340 5221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTTCTT GGCGTACGCT TACTTTACT 5340 5221 TCTGGATATT ACCAGCAAGG CCGATAGGTT GAGTTCTT GGCGTACCCT TACTTACT 5400 5231 TCCTGATATTA ACCAGCAAGG CCGATAGGTT GAGTTCTT GGCGTACCCT TACTTACT 5400 5231 CGGTGGCCTC ACTGATTATA AAAAACACTTC TCCAAGATTCT GGCGTACCCT TACTTACT 5400 5241 CGGTGGCCTC ACTGATTATA AAAAACACTTC CCGCTCTGAT TCCAAGAGGAG AAAGAAAGACAGT 5200 5341 CGGTGGCTC GTCAAAAGCAA CCATAGTACC CGCCCTTGAT TCCCAAGAGGC GCCCCTAAGT 5200 5461 ATACCTTCTT ATCGGCCCAGC GTGACCCGCTA CACTTGCCAG CGGCCCATTAA AGCGCGGCGC 5220 5461 ATACCTTCTT CCTTCCTTT CTCGCCACGT TCCCCGGCTTTCTCAGGCTTC CCCTCCTTAGGGTT TACGCCCAGC GGCCCCAAGTAGG CGCCCCAAAAAACTTG 5700 5521 CGCCTTCATC CCTTCCTTT CCTTCCTTT CCGCCACGT TCCCCGGCTTTTC CCCCCCTGAGA GCCCCCAAAAAAACTTG 5700 5531 CGCCTTCCATT CCGTTCCTTT CACATTAGGGCCAC CCCCAAAAAAACTTG 5700 5531 CACATCAGG TGATCACAAGCAC CCCCAAAAAAACTAG 5700 5531 CACATCAGG TGATCACAAG CGGTGACCCC AAACAAAAAACTAG 5820 5521 CTATCTCGGG CTATTCTTT AATAGTGGAC CTCTGACCG CAATTAAT GCACCCCAAAAAACTAAA 5880 5521 CTATCTCGGG CTATTCTTT AATAGTGGAC CTCTGACCGC TGCTAAAAAAAACTAAA AAATGAAAAAAAAAA	4981 AGGGCTATCA GTTCGCGCAT TAAAGACTAA LAGCLAITUM GCCAGACAATG TCCTTTTAT 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTTC ATTCCTGTTGCA ATGGCTGGCG GAATAGATGT 5220 5101 TCCAGACTGTCG TGACTGGTG AATCTGCCAA TGTAAATAAT CCATTTCAGA CGATTGATGT 5220 5201 TCTGGATATTA GCCAGCAAGG CCGATAGTTT GAGTTCTTCA ACTCAGGCAA GTGATGATTACT 5280 5221 TCTGGATATTA ACCAGCAAGG CCGATAGTTT GAGTTCTTCA ACTCAGGCAA GTGATGATATTACT 5280 5221 TCTGGATATTA ACCAGCAAGG CCGATAGTTT GAGTTCTTCA ACTCAGGCAA GTGATGATACTTACT 52400 5231 TCCATAATCAA AGAAGTATG CTACAACAGGT TAATTTGCGT GAGTGGACAGA CTCTTTTTACT 53400 5231 CCGATGGCCTC ACTGGATTATA AAAACACTTC TCAGAGATTCT GGGGTACCCTT ACCAGCAGGT 54400 5241 CGGTGGCCTC ACTGGATATA AAAACACTTC TCAGAGATTCT GGGGTACCCTT AAGCACAGGT 54400 5241 CGGTGGCCTC ACTGGATACTACACACGGT TAATTTGCGT CGGCGCCATTA AGCGCGCGCGCGCT 5580 5241 AATCCCTTTCT ACTGGCCAGC GTGACCCGCTA CACTTGCCCAG CGCCCTAGAG CCCCCTACAAAGCACTT 5580 5251 GTGTGGTGGT TACGGCCAGC GTGACCCGCTA CACTTGCCCAG CGCCCCTACAA AGCCACCCTTTACACTTCCCTT CCCTTCCCTT
4921 CTICÁCCTÍCÍ GITITATCIT ICIGLIGUIGA 4981 AGGGCIATCA GITICACGCAT TAAAGACTAA IAGCACTILA AAAATAATIC CICTITIAT 300 5041 TATLITAGG CITICAGGAT TAAAGACTAA IAGCACAATAA 5041 TATLITAGG CITICAGGAT AAACACACCAA TAACAATAAT CATLITAGA CGATTAGAGCÉ 5160 5101 TACTGGTCGI GIGGACTGAGA AAACACACCAA TAACAATAAT CATLITAGA CGATTAGACA 5101 TACTGGTCGI GIGGACTGAAATAAT CATLITAGA CGATTAGACAA 5101 TACTGGTCGI GIGACTGACAAATAAT CATLITAGA CGATTAGACAA 5221 TCTGGATATT ACCAGCAAGG CCGATAGITT TCCTGTTGCA ATGGCTGGCG GIAATATTGT 5220 5221 TCTGGATATT ACCAGCAAGG CCGATAGITT TGAGTTCTT TCTTCTTCTT TCCTGCTTAA 5400 5221 TCTGGATATT ACCAGCAAGG CCGATAGITT TGAGTTCTT GAGTTCTT GAGTACCACAAACACTT 5400 5231 TACTAATCAA AGAAGATTATA AAAACACTT TCAAACAGT GAACACATA 8400 5231 TACTAATCAA AGAAGAATTATA AAAACACTT TCAAACAGT GAACACATA 8400 5240 AATCCCTTLA ATCGCCCTCC CTGTTTAACCC CCGCCTCTGAT GCAACACAGA AAACACACTT 5400 5401 AATCCCTTLA GCCACCCC CTGTTAAACCC CCGCCTTGCAT CACCACAGAG AAAGACACTT 5580 5401 AATCCCTTLA CCCCCCCC CTGTTAAACCC CCGCCTCTGCACCC CAAAAAAACACTC 5580 5521 GTGTGGTGGT TACGGCGAGC GTGACCCCCTA CACTGCACCC CAACACACTACA 5580 5521 GTGTGGTGG TACGGCGAGC GTGACCCCCTA CACTGCACC CACCACACACACACACACACACACACACACACAC	4921 CCTCACCTCT GTTTTATCTT CIGLIGLIGG 4981 AGGGCTATCA GTTCCCGCCAT TAAAGACTAA TAGCCATTCA AAAATAATC CCCTTTTAT 5100 5041 TATCTCTCGT GTGCCAGCAT TAAAGACTAA TAGCCAGCAGAATG CCCTTTTAT 5100 5101 TACTGGTCCG GTGCAGGCA AAAGAGGTTC TATCTCTGTT GGCCAGCAGAATG CCATTTAAGAC CGATTAGACCAGCAGATTT TACCTCTGTT GGCCAGCAGATTTT 5220 5101 TACTGGTCCG GTGCAGCAGAGG CCCATAGTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5220 5101 TACTAGATCAA AGAGGTTCTT TCCAGCAAA TAGCCAGCAGA GTGATTTTA 5220 5221 TCTGGATATT ACCAGCAAGG CCCATAGTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5230 5221 TCTGGATATT ACCAGCAAGG CCCATAGTTT GAGTTCTTCTTCT TCCTGCTTAA 5400 5231 TACTAATCAA AGAGGTTTAT CAAACAGTT TAAATCTCTGCTTCTAA 5400 5231 TACTAATCAA AGAGGATTATA AAAACAGTTT TCAAGCAGCAT TAACCAGCAGA AAAGACACTT 5460 5401 AATCCCTTTA ATCGCCCTCC TGTTTAAGCC CCCCCTTGCAT CACACAGAGA AAAGACACTT 5580 5401 AATCCGTTTA TCCGCCCCCC TGTTTAAGCC CCCCCTTGCAA CGCCCCTAAAAAAACACTT 5580 5521 GTGTGGGTGT TACGGCAGC GTGACCCGTA CACTTGCAGC CGCCCTTAAAATC 5640 5521 GTGTGGGTG TACGGCAGC GTGACCCGTA CACTTGCAGC CCCCCTAAAAAAAACACTT 5700 5521 TCACTTCTT CCTTCCTTT CTGCCACACGT TCCCCGGCCCCAAAAAAAACACTG 5700 5521 TCACTTCTT CCTTCCTTT CTGCCACACGT TCCCCGGACCC AAAAAAACACTG 5700 5521 CGCTTTCTT CAGGCTTC CGATTTAAGTG CTTTAAGGGAA CCACCATCAAA 5880 5221 GTGTGGGTGG TACGGCAGC AGAGGCCCAAAAAAACACACACACACACACA	4921 CTICÁCCTÍCÍ GITITATCIT ICIGLIGUIGA 4981 AGGGCIATCA GITICACGCAT TAAAGACTAA IAGCACTILA AAAATAATIC CICTITIAT 300 5041 TATLITAGG CITICAGGAT TAAAGACTAA IAGCACAATAA 5041 TATLITAGG CITICAGGAT AAACACACCAA TAACAATAAT CATLITAGA CGATTAGAGCÉ 5160 5101 TACTGGTCGI GIGGACTGAGA AAACACACCAA TAACAATAAT CATLITAGA CGATTAGACA 5101 TACTGGTCGI GIGGACTGAAATAAT CATLITAGA CGATTAGACAA 5101 TACTGGTCGI GIGACTGACAAATAAT CATLITAGA CGATTAGACAA 5221 TCTGGATATT ACCAGCAAGG CCGATAGITT TCCTGTTGCA ATGGCTGGCG GIAATATTGT 5220 5221 TCTGGATATT ACCAGCAAGG CCGATAGITT TGAGTTCTT TCTTCTTCTT TCCTGCTTAA 5400 5221 TCTGGATATT ACCAGCAAGG CCGATAGITT TGAGTTCTT GAGTTCTT GAGTACCACAAACACTT 5400 5231 TACTAATCAA AGAAGATTATA AAAACACTT TCAAACAGT GAACACATA 8400 5231 TACTAATCAA AGAAGAATTATA AAAACACTT TCAAACAGT GAACACATA 8400 5240 AATCCCTTLA ATCGCCCTCC CTGTTTAACCC CCGCCTCTGAT GCAACACAGA AAACACACTT 5400 5401 AATCCCTTLA GCCACCCC CTGTTAAACCC CCGCCTTGCAT CACCACAGAG AAAGACACTT 5580 5401 AATCCCTTLA CCCCCCCC CTGTTAAACCC CCGCCTCTGCACCC CAAAAAAACACTC 5580 5521 GTGTGGTGGT TACGGCGAGC GTGACCCCCTA CACTGCACCC CAACACACTACA 5580 5521 GTGTGGTGG TACGGCGAGC GTGACCCCCTA CACTGCACC CACCACACACACACACACACACACACACACACAC	4921 CTCACCTCT GTTTTATCTT CLGLIGHIGH 4981 AGGGCTATCA GTTCGCCGCAT TAAAGACTAA TAGCCATTLA AAAATATTC CTGTCCCTTTAT 500 5041 TATTCTTACG CTTLCAGGTC AGAAGGGTTC TATCTCTGTT GGCCAGAATATTCT 5220 5101 TATTCTTACG CTTLCAGGTC AGAAGGGTTC TATCTCTGTT GGCCAGAATATTGT 5220 5101 TACTGGTCGT GTGACTGGTG AAACTGCCAA TACTCTGTT GGCCAGCAA GTGAAATATTGT 5220 5101 TACTAGAATGTA ACCAGCAAGG CCGATAGTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5220 5101 TACTAGACAA AGAATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5220 5101 TACTAGACAA AGAAGTATTA CAAACAGTTC TCAACAGATTCT GAGTGACCAT TCCTGCTAAA 5440 5281 TACTAATCAA AGAAGTATTA CAAACAGTTC TCAACAGTT GAGTGACCAGA ATGGCTAACAGTT 5440 5281 TACTAATCAA AGCAGCCTCC TGTTTAGCTC CGCCCTTGAT TCCAACGAGG AAAGACCATTA 5440 5281 TACTAATCAA ACCGCCTCC TGTTTAGCTC CGCCCTTGAT TCCAACGAGG AAAGACCAGTT 5580 5401 AATCCCTTTA ATCGGCCACC GTGACCGCTA CACCTTGCAC CACCCCTAACG CGCCCCTATGC CGCCCCTAGACCGT TACCGGCAGC GTGAACAGATT TCCTGCCAGCCCC CCCCTAGACCGC GTGAAAAAAATTC 5640 5521 GTGTGGTGGT TACGGGCAGC GTGACCGCTA CACCTTGCAC CACCCCTAAAC ACACCCCTTAGA 5750 5521 GTGTGGGGT TCCCGTCCTTT CTGCCCACCT ACCCCGTACAC ACACCACATCAA 5750 5521 GTGTTGCTTC CCCTTCCTTT CTGCCACCGT TCCCCGGACCC AAAAAAAACTTC 5700 5581 TCGCTTTCTT CCCCCCCTGAT AGGGACAA CCACCATCAA 5750 5701 ATTTGGGTGA TGGTTCACCG AGTGGCCAT CCCCCGTGATA AAAAAACTTC 5750 5701 ATTTGGGTGA TGGTTCACCG AGTGGCCAT CCCCCGTGATA AAAAAACTTC 5700 5881 ACAGGATTTC CCCCTGCTGG GGCAAACCAC CCTTGTCCCAC AACTGGAACCA ACACCACCACAAA 5880 5821 CTATCTCGGG CTATCTTTT AATAGTGGAC CCTCGTACCA AACTGGAACA ACACCCCTT 6000 5881 ACAGGATTAT CCCCTGCTGG GGCAAACCAC CCTTGTCCCAC AACTGGAACCA ACACCACCACAAA 5880 5821 CTATCTCGGG CTATCTTTT AATAGTGGAC CCTCGTACCA AACTGGAACCA ACACCACCACAAACCACCCT 6000 5881 ACAGGATTATA AGGCAACCAC CCTCTCCCCC CGCTTTGCC CGCTTTACCAC TACCACAACCACCCT GCCCCCACCCAAC ACACCAACTAAACCACCCT GCCCCCCCCCC	4921 CCTCACTOT GTTTTATCTT IGCIGGIGG 4981 AGGGCTATA GTTTGCCGCAT TAAAGACTAA TAGCCATTA AAAAATATTGT CTGTGCCCAC 5040 4981 AGGGCTATA GTTTGCCGCAT TAAAGACTAA TAGCCATTTAATATAT 5100 5041 TATTCTTACC CTTTTAGCT AGAAGGGTTC TATCCTGTT GGCCAGAATG CGATTGAGCG 5160 5101 TACTGGTCGT GTGACTGGTG AGAAGGGTTCT TATCCTGTT GACTTGCAG GGATTGTACCG 5160 5101 TACTGGTCGT GTGACTGGTG AGATCTGCCAA TGTAAATAAT CCATTCAGGCAG GTGAATATTGT 5220 5101 TCAAAAATGTA GGTATTTCCA TGAGCGTTTT CATTGAATATAT CCATTCAGGCAG GTGAATATTGT 5220 5221 TCTGGATATT ACCAGCAAGG CCGATAGTT GAGTTCTTCT ACTCAGGAGA GTGATGTTAT 5480 5281 TACTAATCAA AGAAGTATTG CTGAACAGGT TAATTTGCT GGCGTACCGT TCCTTTTACT 5340 5281 TACTAATCAA AGAAGTATTG CTGAACACGGT TAATTTGCAGCAGAG AAAGCATGGTT 5480 5341 CAGGTGGCCTC ACTGATAACAA CCATACAGGT TCCAACAACACTT CCAACAATCT ACCAGCAGAG AAAACACTTT 5480 5341 AAACCGTTTA ATCGGCCTCC TGTTTAGCTC CCGCCTCTGAT CCACCCAGA AAAAACACTTC 5580 5401 AAACCGTTTA ATCGGCCTCC TGTATAGCTC CCGCCTCTGAT CCCCCCTCCAA ACCCCCTTCAA 5490 5521 GTGTGGTGGT TACGCCGCAGC GTGACCCCCATACACCCCTCAACACCCT ACCTTCAACACCCT ACCTTCATACACCCT ACCTTCATACACCCT ACCTTCATACACCCT ACCTTCATACACCCAGACCC AAAAAACCTTCA 5780 5581 CCGCTTCCTCTTCTTTC CCGCCACGCTT CCCCCCCCCC	4921 CCTCACTCT GTTTTATCTT IGGIGGIGG 4981 AGGGCTATCA GTTCGCCGCAT TAAAGACTAA TACCTCTTT GGCCAGGAATG CTCCCTTTTAT \$100 5041 ATTTCTTACG CTTTCAGGCT AGAAGGGTTC TATCCTGTT GGCCAGGAATG CCCCTTTTAT \$100 5101 TACTGGTCGT GTGACTGGTG AGAAGGGTTC TATCCTGTT GCCAGTTCAGA CGATTGAGCG \$160 5101 TACTGGTCGT GTGACTGGTG AGAACGGTTTT TCCTGTTGCA ATGGCTGGCG GTAAATATTG \$220 5161 TCAAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCAG GTGAATTTAT \$280 5161 TCAAAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCCAGG GTGAATTTAT \$280 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCT GAGTGACAGA CTCTTTTACT \$340 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTGCT GAGTGACAGA CTCTTTTACT \$460 5341 CGGTGGCCTC ACTGATTATA AAAAACACTTC TCAAGATTCT GGCGTACCGT TCCTGTCTAT \$460 5341 CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GGCCATAGAG CCCGCTCCTTT \$580 5401 AATCCCTTTA ATGGCCTCC TGTTTAGCTC CCGCCCCTCTAT CCCCCCTTCAGCC CCCCGCTCCTTT \$580 5401 ATACGTGCTT CCCTTCCTTT CTGCCACCAGT CACTTGCACA CGCCCTTAGAG CCCCCTTAGAGC CCCCGCTCCTT \$580 5521 GTGTGGTGGT TACGCCGCAGC GTGACCACGT TCCCCCGCCTCT TCCCCCCTTCAGCC CCCCGCTCCTT \$580 5521 TCGCTTTCTT CCCTTCCTTT CTGCCACCAGT CCCCCGGCTCT TCCCCAGCCC AAAAAACTTC \$5700 5521 TCGCTTTCTT CCCTTCCTTT CTGCCACCAGT CCCCGGCTCT TCCCCCCTTGAGG CCCCCTTAGAGC CCCCGCTCCTTCTCCTCCCCC GCCGGTTTTCCCAACACCAACAAACAACTA \$580 5521 CGCTTGGGTGA TAGCAGCAACCAG CCTTTATATAAACGCAACACCACACACACAACAACAACCACCTCTCTCCCCC GCCGTTTGCCCC GATTCAAACAACAACCACCTCAACCAACCAACAACAACACACCAC	4921 CCTCACTET GTTTTATCTT [CGC16] 196 195 11.081.1971. AAAATATTGT CTGTGCCACG 5940 4981 AGGGCTATICA GTTTCGCGTT TAAAGACTAAT TAAAAAATTTGT CTGTTGCCACG 5950 5041 TATTCTTACG CTTTCAGGT AGAAGGGTTC TATCCTGTT GGCCAGAATG CCCCTTTTAT 5100 5101 TACTGGTCGT GTGACTGGTCA GAAGGGGTTC TATCCTGTTG GACCAGAATGTT 5220 5161 TCACAAATGTGT GGCAAAATGTGT 5220 5161 TCACAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5220 5161 TCACAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTGAATGTTA 5240 5221 TCTGGATATT ACCAGCAAGGC CCGATAGTTT GAGTTCTTCT ACTCGGCGA GTGATGTTA 5240 5281 TACTAATCAA AGAAGTATTG CTACAAAGGT TAATTTGCT GATGGACACA CCCTTTTTACT 5340 5241 CGGTGGCCTC ACCTGATATAA AAAACACTTC TCAAGAATTCT GATGGACACA ACCTTTTACT 5340 5241 CGGTGGCCTT ACCTGATATAA AAAACACTTC TCAAGAATTCT CACAGAATGTA AAGACACGT 5250 5240 AAACACCTTTA ATCGGCCTCC TGTTTAGGTCC CCCCTCTGAT TCAAGACAC ACCATAAAAACATTC 5580 5251 GTGTGGTGGT TCACCGCACAA CCATTAGGACC CACCCTTTACA ACCGGCCCTTT 52580 5251 GTGTGGTGGT TACCCGCACAA CCATTAGGACC CACCCTTTACAAATC 5580 5251 TCGCTTTCTT CCCCTTCCTTT CTGACCACGT TCACACCC CACAAAAAAACTTC 55700 5581 TCGCTTTCTT CCCCTTCCTTT CTGACCACGT TCACACCC CACAAACACA CCATTAGGACC CACGCTTTTCA AACAAAACATTC 55700 5581 TCGCTTTCCTC CACGTCTTT AATAGGGACC CACGCCTGATA AACAACATTC 55700 5581 CAGGGGGTCCC CTTTAGGTGCC GATTACACC CACGCCTTTTACACC CACGCCCTTTTACACC CACGCCCTTTTACACC CACCCCCTTTTACACCC AAACAAACA	4921 CCTCACCTCT GTTTTATCTT CIGCIGGIGG ILLGGIUGG AAAAATATTGT CTGTGCCCACA 1 TAAAGACTAA TACTCTGTT AAAAATATTGT CTGTGCCCACA 1 TAAGACATAA TACTCTGTT GGCCAGAAATG TCCCTTTTTT 5100 5041 TATTCTTACG CTTTCAGGGT AGAAGGGTTC TATCTCTGTT GGCCAGAAATG TCCATTTTAT 5100 5101 TACTGGTCGT GTGACTGGTG AATCTGCCAA TGGTAGAAAATGT GGTATTTGT 5220 5101 TACTGGTCGT GTGACTGGTG AATCTGCCAA TGGTAGAAAATGT GGTATTTTACT 5280 5221 TCCAGAAATGTA GGTATTTCCA TGAGGGTTTT TCCTGTTGCA ATGGCTGGCG GTGAATATTT 5280 5221 TCCAGAAATGTA GGTATTTACA TGAGGGTTTT TCCAGGCAAA GGTAATTTACA 53400 5281 TACTAAATCAA CAGAGTATTA AAAAAGAATTT AAAAAAGAATTT AAAAAAGAATTT AAAAAAGAATTT AAAAAAAA
4921 CCTCACCTCT GTTGACGCAT TANAGACTAN TAGGCATTCA AAAATATTGT CTGGGCACG 4921 CCTCACCTCT GTTGACCTCA GTTGACGCAT TANAGACTAN TAGCCATTCA AAAAATATTGT CTGGGCACG 5160 5041 TATTCTTGAG CGATTGAGGG 5160 5041 TATTCTGGGCAT GTTGAGGC AGAAGGGTT TATCTGTT GAGCAGAATA TCCGTTTTAG 5160 5041 TATCTGGGCAT GTTGAGGC AGAAGGGTT TATCTGTT GAGCAGAATA CCATTGAGGC 5160 5041 TATCTGGGCAT GTTGAGGC AGAAGGGTT TATCTGTT ACTGGAATATTGT 5220 5161 TCAAAATGTA GGTATTTCA TGAGCGTTTT TCCGTTGACA AGGCCAGA GTGATGTTT 5220 5161 TCAAAATGTA GGTATTTCA AGAAGGTTTT TACTTGAGACGAC CTCTTTTACT 5230 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTTTT ACTGGACGAC ACCATCATA 5400 5241 TACTTGAGTCA AGAAGTATTG CTACAACAGGT TAATTTGGGT GAGCAGACGA GTGATGTTTA 5460 5241 TACTTGAGTCACA AGAAGACATT AAAAACACTTC TCAAGAATTTT CAAACACGGT TCCTGCTTAA 5400 5241 TACTTGAGCCACC TGTTTAGAGTC CCGCTCTGAT TCCAACACGT TACTTCTAA 5400 5241 TACTTAATCACA AGAAGCACCT TACTTTAAATTAA AAAACACACTTC TCAAGAATTT TCCAACACGT TACTTCTAA 5400 5241 TACTTAATCACAC ACCATCAATATA AAAACACTTC TCAAGAATTT TCCAACAACGT TACAGCCAACC TACACTTGCAAG CGCCCTTAGAG CCCCCTTAAAATT 5580 5401 AATCCGTCTC TTAAGAGTTC CGATTTAATTAACAC CACTTGCAAG CGCCCTTGAGC CCCCCTTCAAAATC 5580 5221 TACTTGTGGGAT TACGGCAAGC CGTGACCGCTT TCCCCTCCATCAA 5750 5541 GGGGGGCTCTCC TTTAAGAGTTC CGATTTAATTAACACTCACACTCAAACAC 5820 5561 CGCTGGAGCCCC TTTAAGAGTTC CGATTTAATTAACACTCACACCATCAAA 5750 5541 TACGCGAATCA TACGCAACAC ACACCTTCACACCACCACCACCACCACCACCACCACCACC	4921 CCTCACCTCT GTTCACCTCS GTTGACCGCAT TAAAGACTAA TAGCCATTCA AAAAAATATTGT CTGGGCCACG S1600 5041 TATTCTTCACCTCS GTTCACCTCS GTTCACCTCS GTTCACCTCS GTTCACCTCS GTTCACCGCAT TAAAGACTAA TAGCCATTCA AAAAAATATTGT CTGGGCCACG S1600 5041 TATTCTAAGC CTTTCAGGC CAGATGACGCATTCAGACG S1600 5041 TATTCTAGC CTTTCAGGC CAGATGACGCATTCAGACGAGACGAGATGATTCAGACGAGACGAGATGATTCAGACAGA	4921 CCTCACCTCT GTTGACGCAT TANAGACTAN TAGGCATTCA AAAATATTGT CTGGGCACG 4921 CCTCACCTCT GTTGACCTCA GTTGACGCAT TANAGACTAN TAGCCATTCA AAAAATATTGT CTGGGCACG 5160 5041 TATTCTTGAG CGATTGAGGG 5160 5041 TATTCTGGGCAT GTTGAGGC AGAAGGGTT TATCTGTT GAGCAGAATA TCCGTTTTAG 5160 5041 TATCTGGGCAT GTTGAGGC AGAAGGGTT TATCTGTT GAGCAGAATA CCATTGAGGC 5160 5041 TATCTGGGCAT GTTGAGGC AGAAGGGTT TATCTGTT ACTGGAATATTGT 5220 5161 TCAAAATGTA GGTATTTCA TGAGCGTTTT TCCGTTGACA AGGCCAGA GTGATGTTT 5220 5161 TCAAAATGTA GGTATTTCA AGAAGGTTTT TACTTGAGACGAC CTCTTTTACT 5230 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTTTT ACTGGACGAC ACCATCATA 5400 5241 TACTTGAGTCA AGAAGTATTG CTACAACAGGT TAATTTGGGT GAGCAGACGA GTGATGTTTA 5460 5241 TACTTGAGTCACA AGAAGACATT AAAAACACTTC TCAAGAATTTT CAAACACGGT TCCTGCTTAA 5400 5241 TACTTGAGCCACC TGTTTAGAGTC CCGCTCTGAT TCCAACACGT TACTTCTAA 5400 5241 TACTTAATCACA AGAAGCACCT TACTTTAAATTAA AAAACACACTTC TCAAGAATTT TCCAACACGT TACTTCTAA 5400 5241 TACTTAATCACAC ACCATCAATATA AAAACACTTC TCAAGAATTT TCCAACAACGT TACAGCCAACC TACACTTGCAAG CGCCCTTAGAG CCCCCTTAAAATT 5580 5401 AATCCGTCTC TTAAGAGTTC CGATTTAATTAACAC CACTTGCAAG CGCCCTTGAGC CCCCCTTCAAAATC 5580 5221 TACTTGTGGGAT TACGGCAAGC CGTGACCGCTT TCCCCTCCATCAA 5750 5541 GGGGGGCTCTCC TTTAAGAGTTC CGATTTAATTAACACTCACACTCAAACAC 5820 5561 CGCTGGAGCCCC TTTAAGAGTTC CGATTTAATTAACACTCACACCATCAAA 5750 5541 TACGCGAATCA TACGCAACAC ACACCTTCACACCACCACCACCACCACCACCACCACCACC	4981 AGGGCTTCA GTTGGCGCAT TAAAGACTAA TAGCCATTCA AAAATATTGT TGGGCCACCT GTTGGCCACTCT GTTGGCCACTCT GTTGGCCACTCT GTTGGCCACTCT GAAGACTAA TAGCCATTCA AAAAATATTGT TCGGGCCACACTCACTCACTCT GTTGGCCACACTCACTCACTCT GTTGGCCACACTCACTCACTCACTCACTCACTCACTCACT	4921 CCTCACCTCT GTTTTATCT LIGGEGAT TAAGACTAA TAGGCGTTCAACACTCA GTTGGCCACCTC GTTTTATC STUDO 5041 TATTTTAATG GCGCATTTAGG STEED AAACACTAA TAGGCATTCA AAAAATATTG TCCCTTTTATC STUDO 5041 TATTTTAATTAAG GTTCAGGCAAT TAAGACTAA TAGCCAATTCA GGCCAGAATG TCCCCTTTAAG STUDO 5041 TATTTTAAGG CGATTGAGGC STAGGCGCAG STUDO 5041 TATTTTAAGG CGATTGAGGC STUDO 5041 TACTGTTAAGGCGCAA TAGCAGGCGAATG TTCCAGGCAA TGCAGACGGCGGAATG TTCAGGCGAATG TACCAGGCGAA GGCATTGAGCGCAA TACCAGGCGAATGTTAACTGCAGA TACCAGGCGAAGGGAATGTTAACTGAGACGAA TACCAGGCGAAGGGAAGG	4821 CCTCACCTCT GTTTAACT CAGGCAT TAAAGACTAA TAGGCATTCA AAAAAAATT CCTCTAGCCCT GTTTAACT STUDO SO41 TATTTTAATG GCGATTAACG STUDO SO41 TATTTTAACG CTTTACGCCAT TAAAGACTAA TAGCCATTCA AAAAAATT TACCACTTTACG STUDO SO41 TATTTTTAACG CTTTACGGTC AAAAGACTAA TAGCCATTCA AGCCAGAATG TCCCTTTAAC STUDO SO41 TATTTTTAACG GTGACTGGTC AAAAGGGTC TATTCTGTT AGCACTAGACG CGATAATTT SZ200 STUDO TACTGGTCGT GTGACTGGTC AAAAGGGTTC TATTCTGTTC ATGCAGCAA GTGAATATTG SZ200 STUDO TACTGGATATT ACCAGCAAGGC CGATAGTTT TCCTGTTGCA ATGCAGCAAG GTGATTTTACT SZ400 SZ21 TCTGGATATT ACCAGCAAGG CCGATAGTTT AGCTCTGTTCA ACCAGGAGA GTGATTTTACT SZ400 SZ21 TCTGAAAATATA AAAAACACTTC TCACAAAGTCT GCGACGATACTT TACTGACAGAGACGT TACCAGCAAG TACCAGCAAGACGT TACCAGCAAGATCT SZ400 SZ21 TCTGATAATAA AAAAACACTTC TCACAAGATCT TCCAACGAGG AAAAAACACTT SZ400 SZ21 TACCACCAGAGA AACAGCAGACGG SZ520 SZ61 AAACCCATCAA ACCCACTAGAAGACAC CACCATAGATACA GCGCCTACACA CACCACAAGATCA AACACCACACAAGAACACACACACACACACACACACA	4821 CCTCACCTCT GTTTATCT CIGCECAT TAAAGACTAA TAGCCATTCA AAAATATTTAATG CCGTTGGCCAG 5940 4921 CCTCACCTCT GTTTATCT CTGCCCAT TAAAGACTAA TAGCCATTCA AAAATATTTAATG TCCCTTTTAT 5100 5041 TATCTTACG CTTTCAGGCCAT TAAAGACTAA TAGCCATTCA AAAATATTTAATG TCCCTTTTACT 5100 5041 TATCTTACG GTTCAGGCCAT TAAAGACTAA TAGCCATTCA AAAAATATTTAATG TCCCTTTTACT 5100 5101 TACCTGGTCGT GTGACTGGTG AATCTGGCCAA TGTAAATAAT CCATTTCAGGC GGAATATTTG 5220 5161 TCCAAAATGTA GGTATTTCCA TGAGGCCTTTT TCCTGTTGCA ACGCCAGCAG GTGATTTACT 5220 5261 TCTGGATATT ACCAGCAAGG CCGATAGTTT GCATTGAGCA ACGCCAGCAG GTGATTTACT 5400 5281 TACTAATCAA AGAAGCATTTG CAACAACGGT TAATTTGCGT GATGGACAGA TCCTGTCTAA 5400 5281 TACTCAGTCAA AGAAGCATTTG CAACAACGGT TAATTTGCGT GATGGACAGA TCCTGTCTAA 5400 5281 TACTCAGTTATA AAGAAGCACTTC TCAACAACTTC TCAACAATGTT GCCAACGAGG AAGCCACGGT 5520 5401 AATCCCTTTAA ATCGGCCCTC TGTTTAACTC CCGCCTGTAG CGGCGATGA AAGCCACGT 5520 5401 AATCCCTTTCA ATCGGCCCCC TGTTTAACTC CCGCCTGTAG CGGCGCATTA ACCCCCCTCCTT 5580 5521 GTGTGGTGGT TCCCTCCCTTTT CTGCCCACGT TCCCCACCTTTCCAG CCCCCCTCCTT 5580 5521 GTGTGGTGGT CACCGCAGC GTGACCCCCATA CACTTCAAACC 5820 5521 ATTTGGGTTC CTGCTTCAACC AGATTAAGTAC CTCCCCGCTCTTTAACGCCA CACCATCAAACC 5820 5521 ATTTGGGTTC CACGCAGC GTGACCCCATA CACTTCAACC 5820 5521 ATTTGGGTTC CACGCAGC CACCAACATCAA 5880 5521 CTATCTCGGG CTATTCTTT AATAGTGGAC TCTTTTACTGCCA AAACTCGAAAC CACCCTTTAAC 5700 ATTTGGGTTC CACGTCCTTT AATTATAAG GAATTTTACACCACAACACACACACACACACACACACACA	4821 CCTCACCTCT GTTTATCT CIGCOCAT TAAAGACTAA TAGCCATTCA AAAAAATATTG CTGTGCCACG 5160 5041 TATTTTAAG GTTCGCGCAT TAAAGACTAA TAGCCATTCA AAAAATATTG TCCCTTTAAG 5100 5041 TATTTTTACG CTTTCAGGTC AAACCTAA TAGCCATTCA AAAAATATTG TCCCTTTTAAG 5100 5041 TACTGGTCGT GTGACTGGTA AAACCTAA TGTAAATAAAT CCATTTAAGA CGATTGAGC 5160 5101 TACTGGTCGT GTGACTGGTA AAACCTAAT TCCTGTTTCA ATGCAGGCAA GTGAATATTG 5220 5101 TACTGGTCGT GTGACTGGTA AAACCTTTT TCCTGTTGCA ATGCAGGCAA GTGAATATTG 5220 5101 TACTAGTCTA ACCAGCAAGG CCGATAGTTT CCTGTTGCA ATGCAGCAA GTGATTTTACT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT CCTGTTGCA ATGCAGCAA GTGATTTTACT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GCAACAGATCT TCCAACGGCAA GTGATTTTACT 5400 5221 TCTGGATATT ACCAGCAAGACCGC TACAACGGT TAATTTGCT GATGGACCGT TCCAACGGGT TCCAACGGT 5400 5241 CACTAATCAA AGAAGTATTG CTACAACAGTT TCAACAGATCT TCCAACGAGG CCGCCTTACACGT 5400 5241 CACTAATCAA AGAAGCATTTA AAAAACACTTC TCAACAGATCT TCCAACGAGG CCGCCCTTACACGT 5520 5401 AAACCTCTTA ATCGGCCCCC TGTTAAGCTC CCGCCCTGTAG CGGCCCTTACACG CCCCCTCACT 5520 5401 ATACGTGGTCC TCCAACACCAA CCAACACTTC TCACCCCAG CGCCCCTACACA AAAAAACTTG 5700 5581 CCGCTTTCTT CCCTTCCTTT CGGCCACGT TCGCCAGCTT TCCCCGCCAC AAAAAAACTTG 5700 5581 CCGCTTTCTT CCCTTCCTTT CGGCCACGT TCGCCAGCTT TCCCCAGCCC AAAAAAACTTG 5700 5581 CCGCTTATCTTTT AAATAGTGGAC CTTTTTCACGCC AACTGAAACAACTTCAA 5880 5581 CTATTCTTTT AGATTAAAAC CGCAACCAACCAACCAACCAACCAACCAACCAAC
ARCTGACCAB ALLANGE TO TOTAL STORY OF THE STO	ARCTGACCAS MILIURALD. CTAGGCGGGG CACTGTTGGCA GGCGGGGTA ALACTATICATITY 4980 4861 TITITICATITY GCTGCTGGTGATA TAGGCGTGGTATTCAGTATTTTTAATGGCAGCAGAATA TAGGCAGCAGAATA TAGGCAGCAGAATA TAGGCAGCAGAATA TAGCAGCAGAATA AGCAGAACAGAGAATAGAGCAGAATAGAGAGAATATAGAGAGAATATAGAGCAGAATAGAGAGAATATAGAGCAGAAAAAAAA	ARCTGACCAB ALLANGE TO TOTAL STORY OF THE STO	4861 TITITCATITI GETTEGETGET CICAGGEGGG CICCITTGETCGGA GEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4861 TITTICATTI GCTGCTGGC CTCAGGCGGGG TICGTTCGGA GGCGGGGTA ALAGCAGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4861 TITITTCATTI GCTGCTGCT CTCAGCGGGGG CACTGGTGGG GGCGGIGITA GCGATGTTT 4988 4861 TITITTCATTI GTTTTTACTTI CTGCTGGTGG TICGTTCGGT AAAATATTGT CTGGCCACG 5940 4981 AGGGCTATCA GTTTCGGGCAT TAAAGACTAA TAGCCATTCA AAAATATTGT CTGGCCACG 5940 4981 AGGGCTATCA GTTTCGGGCAT TAAAGACTAA TAGCCATTCA AAAATATTGT CTGGCCACG 5940 4981 AGGGCTATCA GTTTCGAGGT AAAAACACTAA TAGCCATTCA AAAATATTGT CTGGCCACG 5940 4981 AGGGCTATCA GTTTCGAGGT CACAAAGACTAA TAGCCATTCA AAAATATTA 5100 5101 TACTGGTCGT GTGACTGGTG AATCTCCCCAA TAGCATGCCA ATGCTTGCCAA GTGAATATTT 5280 5101 TACTGGTCGT GTGACTGGTG AAACACACCAA CTGCTTGCAA GTGAATATTT 5280 5101 TACTAGAAATGTA ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGAATATTT 5280 5101 TACTAGAATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGAATATTT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GATGGACAGA CTCTTTTACT 5340 5281 TACTAATATCAA AGAAGTATTAG CTACAACGGT TAAATTTGCT CCAGCACCACGT 5480 5341 CGGTGGCCTC ACTGGATTATA AAAACACTTC TCAAAGATTCT GGCCGTAGAC AAACACCATC 5540 5401 AAACCCCTTTA ATCGGCCTCC TGTTTAGCTC CCCCTCCTGAT CCCACCGCCTCCTT 5580 5403 AAACCCTTTTA ATCGGCCTCC TGTATAGCTC CCCCCTCCTTGCAA GCCCCAAGACACTT 5580 5521 GTGTGGTGGT TACGCCGCAGC GTGACCCCCAGTT CACTTGCCAA CCCCCTCTAAATC 5540 5581 CCGCTTGAAT CCCTTCCTTT CTGCCACCCTCTTTCCAA ACCACCACTTTAA ACGGGCGCCAC CCCCCTCTTT CCCCACCCTCTTT CTGCCACCCCTCTATA AACGGCCACCCCTTTTACACCT 5570 5581 CCGCTTGCACAACCAC ACGTTTAGCAC CACTCACACCCCACGT TTTACACCT TACCCCACCCC	4861 TTITTACTTI GCTGCTGCT CTCAGCGGGGGGGGGGGGGGGGGGGGGGG	4861 TTITICATIC GCTGCTGCT CTCAGCGGGG CACTGTTGCA GGCGGIGITA ATTACTATA 5300 4861 TTITICATIT GCTGCTGGTGCT CTCAGCGGGGG TCGTTCGCGCACG 5040 4981 AGGGCTATLA GTTLGCGCAT TANAGACTAA TAGCCATTCA AAAATATTGT CTCTGTCTAT 5100 5041 TATTCTTACC CTTTCAGGTC AGAAGGGTTC TATCCTGTT GGCCAGGAATG CCATTCAGGCGGGGGGCTTAAATATT 5200 5101 TACTGGTCGT GTGACCGGGT GAAAGGGTTT TCCTGTTTTCAGA CGATTGAGA CGATTGAGCG 5201 TACTGGTCGT GTGACCTGGTG AGAAGGGTTT TCCTGTTTTACA TCGAGCGAGATG TCAGTTTACAG 5210 TACTGGTCGT GTGACCTGGTG AGAAGGGTTT TCCTGTTTCA ATGGCTGGCG GTAATATTG 5220 5211 TCGAAAATGTA AGCAGCAAGG CCGATAGTTT GAGTTCTTTT ACTCAGGAGA CTCTTTTACT 5230 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTTC TCAGAGAGA CTCTTTTACT 5240 5281 TACTAATCAA AGAAGTATTG CTAAAACAGTT TCCAAGAGACAGA CTCTTTTACT 5240 5281 TACTAATCAA AGAAGTATTG CTAAAACACTTC TCCAAGATCTT CCCACGAGAG AAAACACGGT 5240 5281 TACTAATCAA ACGAGACACATTAGACCGCT CACCTCTGAT TCCAAGAGAG AAAACACGGT 5240 5281 TACGTGGTC GTCAAAACACAT CACTAGTACCTC CCCCTTCGAT TCCAAGAGAG AAAACACTTC 5540 5281 TACGTGGTC GTCAAAACACA CCATAGACACCT CACCTCTGAT CACCCCCTTAGA CCCCCCTCTACGC CCCCCCTCTTTT 5580 5281 TCGGTTTCTT CCCTTCCTTT CTGCCACAGT CACCTCGAGC CCCCACCCC AAAAAACTTG 5700 5281 GGGGCCTCC CTTTCAGTGT CCACTTCGTT CACCTCGATA CACCTCAAACC 5880 5281 TCTATCTCGGG CTATTCTTTT AATAGGGGC CACGT CACCTCGACC AAAAAACTTG 5700 5281 GGGGCCTCC CTTTCAGTT CACCTCCCCC CGCCTTGTTCCAA ACCTCAAACC 5880 5281 CTATCTCCTGC AGGGCCAACCCACGT TCCACCGCT TTGTTCCACGC GATTCATAAT GCCCCTTGACG 5940 5281 CCACGCCCAAA ACCCCTCCCCCAG CACCTCTCCCCC GATTCATAAT GCCCCTTGAC CCCCCCGCTCT TTGTTCCAAGCC 5940 5281 CCACGCCCAAACCCA CACCTCTCCCCC CGCGTTTCCCCC GATTCATAAT GCACCTCGACC CACCTCTCCCCC CGCCTTTTCTTCCACACC CACCTCTTTCACACC CACCTCTTTCACACC CACCTCTTTCACACC CACCTCTTTCACACC CACCTCTTTCACCCC GCCCTCTCCCCC GCCGTTTTCCACCCCCACC CACCACCCACCACCCACCACCACCACCA
4801 AACTGACTÁG ÁTATTIGÁTIG AGGGTTTGAI AI ILBAGGIL CACGAGTTA ÁTACTGACCG 4920 4861 TITHICATTI CIGCIGCIGG CACTGAGGGTG CACTGATGACATTA ATACTGACCG 5940 4921 CCTCACCICT GITTGACCGAT TAAAGACTAA TAGCCATICA AAAATAITGI CIGGECACG 5940 49281 AGGGCTATCA GITTGACGCAT TAAAGACTAA TAGCCATICA AAAATAITGI LICCITTITAGA 1910 5041 TATTCTTACG CITTCAGGGT AAGAAGGGTTC TAAATAATAITGI CACTTTCAGAC GAATTGACCG 5150 5041 TATTCTTACG CITTCAGGGT AAGAAGGGTTC TAAATAATAT CACATTCAGACA GAATTGACCG 5150 5161 TAACTGATCGT GIGACTGGTA AACTGCCAAA 5161 TCAAAAATGTTA GCGATTATTCAC TAGACCGATTA AAGAATATTGA CACTTTCAGACAA GAATTGACCA 5150 5221 TCTGAATATTA ACCAGCAAGA CACCATAGTTT CACAGATTCT CACCAAGACCAA GTGATTTTCAT 53400 5281 TACTAATCAA AGAAGTATTG CTACAACAGGT TAATTTGGGT GATGACACAA GTGATTATTCA 53400 5281 TACTAATCAA ACCAGCACAC CTGATAGTT CACAGATTCT GAGGCAACAA CACTTATTCAAA GAAGACACGT TAATTTGGGT GATACGACGAA CACTAGATTATA AAAACACTTC TCCAACGAGAG CACCAATAAACAACTTC TCCAACGAGGT AAAACACACGT TAACCGACCACAA CACTAGATTATAA CACGCCCTCTAAA CACGACCATTAA ACCAGCCACCAC TACACCACACACACACACACACACACACACAC	4741 ARCTGACZÓG ATATTGATTG AGGGTTTGAT ALLIBAGGIL CACCAGOTTA ATACTGACCG 4920 4861 TITHICATTT GCTGCTGGCTC CTCAGGGGGG CACTGTGA AAATATTGT LIGIGCCAGG 5040 4981 AGGGCTATCA GTTCGCCGAT TAAAGACTAA TAGCCCATTCA AAAATATTGT LIGIGCCAGG 5040 4981 AGGGCTATCA GTTCGCCGAT TAAAGACTAA TAGCCCATTCA AAAATATTGT LICIGTGCCAG 5150 5041 TATTCTTACG CTTTCAGGGT AAAGAGCATAA TAGCCCATTCA AAAATATTGT LICIGTGCCAG 5150 5041 TATTCTTACG CTTTCAGGGT AAAGAGCATAA TAGCCCATTCA AAAATATTGT LICIGTGCCAG 5150 5041 TATTCTTACG GTTGACCGAT AAAGAGCATAA TAGCCCATTCAGA AAATATTGT LICIGTGCAG 5150 5101 TACTGGTCGT GTGACTGGTG AACTCGCCAA TAGCATTCAGA ATGCCTGCGG GTAATTGACA 5150 5101 TACTGGTTGTTA ACCAGCAAGG CCCATAGTTI GAGTTCTTCA ACCAGCCAA GTGATTTTCAT 5340 5221 TCTGAATATT ACCAGCAAGG CCCATAGTTI GAGTTCTTCA ACCAGCCAA GTGATTTTCAT 5340 5281 TACTAATCAA AGAACTATT CTACAACAGCT TAATTTGGGT GAGTACCAG AAAACACTC TCCACCAAGAGCAG AAAACACAGG TAATATTGGT GAGTGACCAG AAAACACTC TCCAAACAACAC ACCAGATTAAACAACTC TCCAACAAGACAG AAAACACAG TCAATTTTACAA AAAACAACTC TCCAACAACAACACACAC	4801 AACTGACTÁG ÁTATTIGÁTIG AGGGTTTGAI AI ILBAGGIL CACGAGTTA ÁTACTGACCG 4920 4861 TITHICATTI CIGCIGCIGG CACTGAGGGTG CACTGATGACATTA ATACTGACCG 5940 4921 CCTCACCICT GITTGACCGAT TAAAGACTAA TAGCCATICA AAAATAITGI CIGGECACG 5940 4981 AGGGCTATCA GITCGCGCAT TAAAGACTAA TAGCCATICA AAAATAITGI LICCITTIGAG 5150 5041 TATTCTTACG CITTCAGGGT AAGAAGGGTTC TATCCTGTT GGCCAGATG LICCITTIGAGCG 5150 5041 TATTCTTACG CITTCAGGTC AAGAAGGGTTC TATCCTGTT GGCCAGATG LICCITTIGAGCG 5150 5161 TCAAAATGTT GGTATTTCAC TGAGCGTT TAACTGTTCAA ATGCCTGGC GTAATATTGT 5220 5161 TCAAAAATGTT GGTATTTCAC TGAGCGTTTT CACTGATTCAA ATGCCTGGC GTAATATTGT 5280 5221 TCTGATATT ACCAGCAAGG CCGCATAGTTT GAGTTCTTCAA ATGCCTGGC GTAATATTGT 5280 5281 TACTGATCAA AGAAGTATG CTACAACAGGT TAATTTGGCT GAGGCAAA CTCTTTTCAA 5400 5281 TACTGATTTA ACCAGCAAGA CATAGATTT CAACAGTTC TCAACGAGAT TAACTCAACGAG TAATATTTGCT 5340 5241 CAGGGGCTTC TACAGCCAA CCATAGATTATA CACGGCCAA CACTGATTATA CACGGCCAC TAACAACTCT TCAACAGATCT GGCGCAACAGATTA ACCAGCAGG TAAAACAACTCT TCAACAGATCT CACCACGAGG TAAAACAACTCT 5240 52401 AATCCCTTTA ATCGGCTCC TGTTTAGCTC CCGCCTTGATA CACCAACGAGG TAAAACAACTCT 5250 5241 CACGAGGGTTC TCCCTTCCTTTT CTGCCACACG CCCCCTGATA CCCAACGAGG TAAAACAACTC 5250 5241 TACTGCGGT TACGGCAGC GTGACCCCTA ACCTCAACACACACTAA ACCGCCACTCAA CACCACACACACACACACACACACACACACA	4801 AACTGACCAGA ATATTGATTG AGGGTTTGAT ATTTTAATG GCGATGTTT 4980 4861 TTTTTCATTT GCTGCTGCTC CTCAGGGTGG CACTGTTGCA GCGGTGTTT ATACTGACCG 4900 4981 AGGGCTATCA GTTCGCCGCAT TAAAGACTAA TAGCCCATTCA AAAATATTGT TCGGTGCCACG 5040 4981 AGGGCTATCA GTTCGCCGCAT TAAAGACTAA TAGCCCATTCA AAAATATTGT TCGGTGCCACG 5040 4981 AGGGCTATCA GTTCGCCGCAT TAAAGACTAA TAGCCCATTCA AAAATATTGT TCGGTGCCACG 5160 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTTC TATTCTTT GGCCACATTCA TAGCCCATTCA AAAATATTGT TCCCTTTTAGTGTCGT GTTCAGCCCAC TAAAGACTTC TCGTGTCCACG 5160 5041 TATTCTACG GTTGACCCAC AGAAGGGTT TAATTTGCTT ACTCAGCCAA GTGATTTTCAC 5160 5161 TCAAAATGTA GTATTTCCA TGACCGTTT TCCTGTTTGCAC ATGGCTGGCG GTAATATTGT 5200 5221 TCTGGATATT ACCAGCAAGG CCCATAGTTT CCTGTTTGCACACGACA GTGATTTTAACT 5200 5228 TACTGGATTTA ACCAGCAAGG CCCATAGTTT TCCTGTTCAATTGCGT GAGTACCGT TAATTTGCGT GAGTGACCGT TCCTGTTTAACT 5200 5240 AAACCCCTTTA ACCAGCCTCC TGTTTAGCTC TCCTGTATTCTGATACACGGT TAATTTGCGT GAGTACCGTT TCCTGTTCAAACGGT TAATTTGCGT GAAGACCAA CCATAGATACAC GCCCTTGCACCCAAAGAAACCTT TCCTGTTCAAACGGT TAATTTGCGT GAAGACCAA CCATAGATACAC GCCCTTGCACCCAAACAAAACCTT TCCTGTTCAAACGGT TACCAACGAGA CCATAGATACAC GCCCTTGCACC CCGGTCCTTTT 5580 5240 AAACCGGCTTC TACCGGCAGC GTGACCGCTA CCCCCTGTATA ACCGGCACACAACAACCTACAACCACCTTACAACGGCT TACCAGGCACACACACACACACACACACACACACACACAC	4801 AACTOCACTOR GETGETGET AGGGGTTGAT ATTITACAGG 4920 4861 TTTTCATTT GETGETGETT CTGAGGGGG CACTGTTGCA GEGGGTTTA ATACTGAGCG 4920 4861 TTTTCACTTC GETTGETT CTGCTGGTGG CACTGTTGCA AAATATTGT TGGGGATGTTT 4980 4981 AGGGCTATCA GTTCGCCGAT TAAAGACTAA TAGCCATTCA AAAATATTGT TCGGTGTGAGCG 5160 5041 TATTCTTACG CTTTCAGGGT AGAAGGGTTA TATCCCATTTA GGCCAGAATG TCCCTTTTATT 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTT TATCTTTGTT GGCCAGATG TCCCTTTTATT 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTT TATCTTTGAG ATTGGCTGGC GTAATATTGT 5220 5161 TCAAAATGTA GGTATTTCAC TGAGCGTTTT TCCTGTTTGAA ATGGCTGGCG GTAATATTGT 5280 5281 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTTTGCAT ACTCAGGCAA GTGGATGTTACT 5340 5281 TACTGATCCAA AGAAGTATTG CTACAACGGT TAATTTGGGT GAGTGAGCAA GTGGATGTTACT 5340 5281 TACTGATCCAA AGAAGTATTG CTACAACGGT TAATTTGGGT GAGTGAGCAA GTGGATGTATA 5400 5341 CAGTGGCTT ACCGGCAGC GTGAACGACTA CTACAACGAGC CACCAAGAAGAACTTC TCCAAACGAGG AAAAGCACGT TAATTTGGATGATACAACGGT TAATTTGGATGATA ACCGGCAGCAG TCCAAAGAACA CCATAGATACAC CCCCTTCGAT CCCAACGAGGA GAAAGCACATA TACAACGGT TAATTTGGATGATA ACCGCGCTTT 5580 5341 CAGTGGCTT ACCGGCAGC GTGAACGACA CCATAGATAC GCCCTTGGAT CCCAACGAGGA GAACAACACTACTACACGGT TACAACGGG TAATTTGGATGATAC GCCCCTTAGACGACAACACACAACACA	4801 AACTGACCAG ATATTGATTG AGGGTTTGAT ALLIGAGGIT CAGGGGGTTTA ATACTGACCG 49/20 4861 TTTTTCATTT GCTGCTGGCT CTCAGGGGGG CACTGTGCAG ATTTTTAATG GCGATGTTT 4980 4821 CCCCCCTCT GTTTGACCTC CTCAGGGGGG CACTGTCAGAAAATATGT TCGTGTGCCACG 5040 4981 AGGGCTATCA GTTCGCCGAT TAAAGACTAA TAGCCCATTCA AAAATATGT TCGTGTGCCACG 5100 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTT TATCTCTGTT GGCCACAATG CCCCTTTTAACT 5041 TATCTTACG CTTCAGGGC AGAAGGGTT TATCTCAGTT GGCCACAATG CCCCTTTTAACT 5161 TCAAAATGTA GTATTTCACA TGAGCCGTTT TCGTGCCACG 5100 5161 TCAAAATGTA GGTATTTCACA TGAGCGTTT TCGTGCTCA ACTGCACAA GTGATTTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATTTTAT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATTTTAT 5280 5231 TCTGGATATT ACCAGCAAGG CCGATAGTTT TAGAGACTCT TACTTTGGGT GAGTGACCGAT TCCTGTTTAAC 5400 5231 TCGGATGGCCTC ACTGATATATA AAAACACTTC CCGCTCTGAA CCCCCAACGAGG AAAGACACGTT 5400 5231 TCGGATGCTT ACCAGCCACA CCATAGATCAC CCCCCTGTAG CGCCCATTA ACCAGCAGGGGG 5520 5461 ATACCGTCT TACCGCCACCT TCTGTACACCGC CCCCCTGTAG CGCCCATTA ACCAGCAGGGGG 5520 5461 ATACCGTCT TCCCTTCCTTT CTCGCCACGT TCCCCCTCTGAACCGCC AAAAAAACACTC 5580 5521 GTGTGGGTGT TACCGCCACCT AGGGCCCCA TAGAACACAC CATTGCCAG CGCCCCTACACAGGG GCCCCTTTGAACACCGT TCCCCTTCCTTT TACCGGCCACC TCCCCCCCTGAACACACCC AAAAAAACACC 5580 5521 GTGTGGGTGT TACCGCCACCT AGGGCCCCA TACCACCCCTACACACACACACACACACACACAC	4/41 IABCIGACCAG ATATTGATTG AGGGTTTGAI AIIIGAGGI CREATGAITA ATACTGACCG 4920 4861 TTTITCATTT GCTGCTGCTC TCTAGGGGGG CACTGTTGAG ATTITTAATG GCGATGTTTA 4880 4921 CCTCACCTCT GTTTAATCTT CTGCTGGTGG TTCGTTCGGT ATTITTAATG GCGATGTTTA 4880 4921 CCTCACCTCT GTTTATACTT CTGCTGGTGG TTCGTTCGGT AGAATATTGT CTGTTGCCAC 5040 4981 AGGGCTATCA GTTCGGCGAT TAAAGACTAA TAGCCATTCA AAAATATTGT CTGTTGCCAC 5160 5041 TATTCTTACG CTTTCAGGTC AGAAGGGTT TATCTCTGTT GCACTGAGAAG CGATTGAGCG 5160 5041 TATTCTGATCGT GTGACTGGTG AAACTGCCAA TGTAAAATAAT CCATTTCAGA GGTAGAAGCG 5160 5101 TACTGGTCGT GTGACTGGTG AAACTGCCAA TGTAAAATAAT CCATTTCAGA GGTAGAATATTGT 5280 5101 TACTGGTCGT ACCAGCAAAGC CCAGATGTTT GAGCTTCTC ACTCAGGCAA GTGAATATTGT 5280 5101 TACTGGTCAT ACCAGCAAAGC CCAGATGTTT GAGTTCTTC ACTCAGGCAA GTGAATATTGT 5280 5101 TACTGATCAA AGAAGTATTG CTACAACGGT TAATTTGCCT GATGGACAGA CCTTTTAAT 5280 5221 TCTGGATATTA ACCAGCAAAGCCT CTACAACGGT TAATTTTTCCTACACAGGT TCAGAGCAGCTTTAACTCTAAATCT 5340 5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTTTGCT GATGGACAGGT TCAGAGCAGGT 5400 5341 CAGTGGGCTTC ACTGATTAA AAAACACTCT TCAAAACAACTTC TCAAAACAACTTC TCAAAACAAC CCATAAGCAAC CCATAGACCAC CCATAGATT TCCAACGAGGT TACGCCCCTT 5580 5401 AATCCTCTTA ATCGGCCTCC TGTTTAGGTC CCGCCTTATA GACGGCCATTT ACGCCCTTTTAGATC TCAACACAACCAC CATAGACAAC CCATAGATACAACCAC CACACACACACTCAACCAG CGCCCCTAACG CCCCCTAACG CCCCCTAGAGCACCAC CACACAACACA	4/401 AACTGACCA GATATTGATTG AGGGTTTGAT ALLIBOAGUTA ALLIBOAGUTA ATTATATA GAGATGACCG 4920 4861 TTTTTCATTT GCTGCTGCTC CTCAGGGTGG TTCGTTGGT ATTTTAATG GCGATGTTTT 4980 4921 CCTCACCTCT GTTTAATCTT CTGCTGGTGG TTCGTTCGGT ATTTTAATG GCGATGTTT 4980 4921 CCTCACCTCT GTTTCACCTCT TCGCGCAT TAAAGACTAA TAGCCATTCA AAAATATTGT CTGTGCCACG 5040 4981 AGGGCTATCA GTTCGGCGAT AAAAGACTAA TAGCCATTCA AAAATATTGT CTGTTGCCACG 5160 5041 TATTTTACGTCGT GTGACTGGGT AAAAGACTAA TAGCCATTCA AAAATATTGT 5220 5101 TACTAGGTCGT GTGACTGGGA AAAATATTGT 5220 5101 TACTAGGTCGT GTGACTGGGA GAAAGACTAT TAGCAGCAAAGACACAA TACCAGCAAAGA GCGATTATT 5280 5101 TACTAGGATGAT ACCAGCAAAGA CCGATTGTTT GAGCTTTCT ACCAGGAAATATTGT 5280 5101 TACTAGATATA AGAAAGAACATTT GAGACATTTT GAGTTCTT AACCAGCAAAGA CCGATTATTT GAGTTCTT AACCAGCAAAGA CCGATAGTTT GAGACAACACTTC TACAAAATATTG 5220 5221 TCTGGATATTA ACCAGCAAAGACACTTC TCGACAACTTC TACAAAACAACTTC TCAAAAATATTG AACCAGCAAAGACACTTC TCAAAAATATTG AACCAGCAAAGACACTTC TCAAAAATATTG 5280 5281 TACTAAATAAA AGAAAGTATTTA AAAAACACTTC TCAAAAATATTT TCCAACAACAAACA
4961 TACTGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4901 AACTGACCT AAAGATATTT TAGALAACLGAT LULLGAGT CACCAGAGGT ATACTGACCAG 48020 4801 AACTGACCAG ATATTGATTG AGGGTTGGCACCACCATTTTAGAGGT CACTGATTGCACAGAGGT AGGGTTGGCACCACCATTTTAGAGGT CACTGATTGCACCACCACCACCACCACCACCACCACCACCACCACCAC	4961 TACTGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4941 TAKTÉGACCAT AAAGATATTT TAGALAACUI LILLEAGGT CACCAGEGT ATACTTAGA 48920 4801 AACTGACCAG ATATTGATTGATTGAT AGGGTTGAT CACTGAGEGTGAT ATACTGACCG 4920 4801 AACTGACCAG ATATTGATTGAT AGGGTTGATGA GACTGATGATTT GAGGTTGACCG 5040 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGGT TTGCTTGGAT AAAATATTG GGGATGTTTT 4988 4861 TTTTLCATTT GCTGCTGGGT TTGATTGGATGG TTGGTCAGG 5040 4981 AGGGCTATCA GTTCGGCGAT TAAAGACTAA TAGCCAATCA AAAAATATTG CTGCTGGTGATGATGAGG 5040 4981 AGGGCTATCA GTTCGGCGAT TAAAGACTAA TAGCCAATCA AAAAAATATTG CTGCTAGGCAGAATG TCCCTTTTAT 5100 5041 TATTGGTCTAGG CTTTCAGGTC AGAAGGGTT TAGCCAAA TAGCCAGCAAAG GGATATATTGA 5100 5101 TACTGGATGAT GACTGGCAAA TAGCCAAA TAGCCAGCAAA GGATATATTA 5220 5101 TACTGGATGAT AGACGCAAAGGG CCGATAGTTT CACTGAGCAAA TGCTCAGACAGA TGCAGCAAAGAGAA CCACACAAGGG CCGATATATTA CACACAAAGGG CCGATAGATTGAGAATTCAT ACCACAAAGGG CCGATATATTA ACAACACATTC TCAACAACATTC GAGCGTACCAT TCCTGTCTAA 5400 5241 TATCCCTTTA ACCACCAAGG CCGATAGTACC CCGCCTTGAAA TCCACCAGGAAGGA TCCACCACAAGAGAACAA CCAATAGTACC CCGCCTTGAAACAAA TCCACCAAGAGAAACAA CCAATAGTACC CCGCCTTGAAACAAA TCCACCAAGAAGAAA CCAATAGTACC CCGCCTTGAAACAAA TCCACCAAGAAGAAA CCAATAGTACC CCGCCTTGAAACAACACCTTTAAAACAAA ACACCACTTAAAACAAA CCACACAAGACAA CCAATAGTACC CCGCCTTGAAACAACACCTTTAAAACAAA CCACCACAAGAACAACACCTTTAAAACAAA CCACCACAAGAACAAACAACACCTTTAAAACAAAAC	4941 TAĞTĞCAĞCT AÄAGATATIT TAĞALARCI LULLĞAĞIT ÇAĞCĞAĞĞTĞ ATĞCTTAĞA 48920 4861 TITLICATIT GETGETGGET CICAĞĞĞĞĞĞ CACTĞITĞCA ĞĞĞĞĞĞTĞTIA ATAĞCTĞAĞÇĞ 4920 4861 TITLICATIT ĞÜTÜNLÜLÜN ÇÜĞĞĞĞĞĞÜĞÜN TÜRÜTÜLÜNÜN AMATATITAT ÇÜĞÜNLÜNÜN ÇÜĞÜNÜN ÇÜĞÜN ÇÜN ÇÜĞÜN ÇÜN ÇÜN ÇÜĞÜN ÇÜN ÇÜĞÜN ÇÜN ÇÜN ÇÜĞÜN ÇÜN ÇÜN ÇÜN ÇÜN ÇÜN ÇÜN ÇÜN ÇÜN ÇÜN Ç	4941 TAGTGCACCA ATATTGATTG AGGATTGTTATA AGAINALL LULIGAGGTT CACCAGGTG ATACTTGACGA GARDAN ARCTGACCAC ATATTGATTGATTGAT AGGATTGATTGAT AGGATTGACCA GARGAGGTGATA ATACTGACCAC ATATTGATTGAT AGGATTGATTGAT AGGATTGATTGA	4941 TAGTGCCCC ATATTGATT TAGALANCH LULIGAGGTT CACCAGGTG ATGCTTTAGA 48920 4801 TATTTGATTGATG AGGGTTTGAT CACCAGGTGG CACTGTTGCA GGGGGTGTTA ATACTGACCG 4920 4801 TATTTCATTTG GTGGTTGGGT CTCAGGGTGG CACTGTTGCA GGGGGTGTTA ATACTGACCG 4920 4801 TATTTCATTTG GTGGTTGGGTTC TTCAGGTGGGTGGTTA ATACTGACCG 5040 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGGGTTTCCGTA ATATTTATTG CCGTTTTAT 5100 4921 AGGGCTATCA GTTTCAGGTC AGAAGGGTTC TATCTCTGTT GGCCAGAATG CCCTTTTAT 5100 5041 TATTCTTAGG CTTTCAGGTC AGAAGGGTTC TATCTCTGTT GGCCAGAATG CCCTTTTAT 5100 5101 TACTGGTCGT GTGACTGGTG AATCTGCCAA TAGCCCATCA ATGGCCAGAATG GGATGATTAT 5220 5101 TACTGGTCGT GTGACTGGTG AATCTGCCAA TAGCTCAGA ATGGCCAGAAG GGATGATGTTG 5220 5211 TCCTGGATATT ACCAGCAAGG CCCGATAGATTT TCCTGTTCAA ATGGCCTGCG GTAATATTTAT 5300 5221 TCCTGGATATT ACCAGCAAGG CCCGATAGATTT CCAGTCAA ATGGCCTGCG GTAATATTTAT 5300 5231 TCCTGATATTA ACCAGCAAGG CCCGATAGATTT CCAGTCAGA ATGGCCTGACG GTAATATTTA 53400 52341 CGGTGGCCTC ACTGATTATA AAAACAGTT CTACAACGGT TCCCAACGAGA ATGGCACAGA CCCTTTAATCCAGCAGA TCCTTTTAACTCAGACGAGA ACCGCTAGAAGCAA CCATAGTACC CGCCTTGATA CCCAGCGGGCGGT 5520 5401 AATCCCTTTA ATCGGCCCAC CCTTTAGCTC CGCCCTTGAT CCCAGGGGCACTTA ACCGGCGCGGCG	4941 TASTECACCT AAAGATATITI TAGAIAACU 4801 AACTEGACCAG ATATICATITI AGAIAACU 4801 AACTEGACCAG ATATICATITI AGAIAACU 4801 TATTICATITI GCTGCTGCT CICAGCGTGG CACTGTTGCA GGCGGTGTTA ATACTGACCG 4801 CCTCACCTCT GTTTTATCTT CTGCTGGTGG CACTGTTGCA GAGATGTTA ATACTGACCG 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTGCTTCGTCGTA AAAATATTGT CTGTGCCACG 4921 CCTCACCTCT GTTTTATCTT TGCTGGTGGTG TTGCTTCGTA AAAATATTGT CTGTGCCACG 4921 AGAGCTATCA GTTCACGGCAT TAAAAGACTAA TAGCCATTCA AAAATATTGT CTCCCTTTAT 5100 4921 AGAGCTATCA GTTCACGGCAT TAAAAGACTAA TAGCCATTCA AAAATATTGT CTCCCTTTAT 5100 5101 TACTGACTAGG CTTTCAGGTC AAAAAGACTAA TAGCCATTCA AAAATATTGT CTCCTTTCAGGC GTAAAATTTGT 5220 5101 TACTGACTAGT GGACTGGTG AAACTCCCCAA TAGAACGAAC CCATTGAGCA GTAAAATTGT 5220 5101 TACTGACTAATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT ACTCAGGCAGA CTCTTTTATC 5330 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GATGACAGAG GTGAATGTTAT 5330 5221 TCTGGATAGT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GACTGAGCAGA CTCTTTTAAATC 54400 5221 TCTGGATATT ACCAGCAAGG CCGATAGTTT GAGTTCTTCT GACTGAGCAGAA CTCTTTTAAATC 54400 5221 TCTGGATAGTA ATCGGCCTCC TGTTTAGCTC CCGCCTCTTTA CCCCGCGCTCTTTAA 54400 5231 TACTAACAAAACAACCTC CTGTTTAGCTC CCGCCTCTTTAA TCCAGCAGAGA AAACAACGTT 55400 5231 TACTACTACAAAGCAA CCCATAGTACAACCTC CTGTACACACAACCATCAAAACACATC CTCAAACCACACACA
### 1 TAGGECACT ANAGGATATIC TITLES TABATASIACT TO TOTAL TO THE STATE OF THE STATE O	### ### ### #### #####################	### 1 TAGGECACT ANAGGATATIC TITLES TABATASIACT TO TOTAL TO THE STATE OF THE STATE O	### ### ### ### ### ### ### ### ### ##	4741 TAGGCACCA ATATTIGATIG AGGGTTTGAT TATTIGAGGTT AGCAGAGGTG TAGGTTTIGAG AGCAGAGGTG ATATTIGAGA 4880 4880 4880 4880 4880 4880 4881 AACTGACCAG ATATTIGATIG AGGGTTTGAT TATTIGAGGTT AGCAGAGGTG TA ATACTGACTG 4880 4881 AACTGACCAG TATTIGATIGAT AGGGTTGAGT ATTITIGAT 4880 4880 4881 AACTGACCAG TATTIGATIGAT AGGGTTGAGT ATATTIGATIGAT 4880 4881 AGGGTTTCATCAGTTT CTGCTGGTGG CACTGTTGAG ATTITIAACT CTGCTGGTGG CACTGTTGAG ATTITIAACT CTGCTGGTGG TATTITIAACT CTGCTGGTGG CACTGTTGAGATTTTATTICATT TAGGAGCAGATTA TAGGCAGACATTA TAGGACCACTTCA AGAATGTTG GGCAGCAATG TACCTTTTATTATTTATCATT TAGAGACTATA TAGGCACATTCA AGAATGTTG GGCAGCAATG TACCTTTTATTTATCATT CACTGCACATA TAGACAATATTA GGCAGCAAATGT CACTTTTATTATTTATCATT TAGAGACATATATTAGAAATGTTA GGTATTTCCA TAGAGCAA GGCAGAAATGAT CACTTTTATATTTACATTAGAGCAA TAGATTTAGAGCAA ATGATTAGAAATGTTA GGTATTTCCA TAGAGCAA GGCAGAAATGAT CACTGATTATATAAAAAATGATTAGAAAATGTA GAGAAATGTAT ACCAGCAAGG CCCAATAGTTT GAGTTTTTACAAAAATGTA GAGAAATGTATAAAAAAAAAA	4741 TAGTGCACCT AAAGATATTI TAGATGACT TOTTCAATTIC CTTTCTACTG TIGHTIGA 4880 4741 TAGTGCACCT AAAGATATTI TAGATGATGA TAGATGACT TAGATTIC CTTTCTACTG GACCAGGGTTA ATACTGACCG 4920 4861 TITTICATTI GCTGCTGTGAC CACTGTTGCA GACCAAGGTG TA ATACTGACCG 4920 4861 TITTICATTI GCTGCTGCGC TCTCAGGGTGG CACTGTTGCA GACCAAGGTG TAGATGACCG 4921 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTCGTTGCGT ATTTTTATT GGGATGTTTI 4980 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTCGTTGCGT ATTTTTATT GGGATGTTTI 4980 4921 AGGGCTATCA GTTCGCGCAT TAGAAGACTAA TAGCCATTCA AAAATATTGT CTGTCCCACG 5040 4981 AGGGCTATCA GTTCGCGCAT TAGAAGAGTTA TAGACCATTCA AAAATATTGT CTGTCTCACG 5160 5041 TATTCTTACG GTTGACTGGT AAAACTGCCAA TAGACAGAATGA TCCCTTTTACT 5190 5041 TACTCAGCCGT GTGACTGCT AGAAGAGTTT TAGATTGCA ATGCCTGGCG GTAATATTGT 5280 5161 TCAAAAATGTA GCTATTTCAC TGAGCCTTTT TACTTACACAGGCA AGAGCACAA GTGATGTTTACT 5280 5221 TCTGGATATT ACCAGCCACG CCGATAGTTT CAGAGCACA AGAGCACGT TCCTTTTACT 5340 5281 TACTAATCAA AGAAGTATG CTACAACAGGT TAAATTTGCGT GAGCACCAA GTGATGATAT 5400 5281 TACTAATCAA ACCAGACACA CCATAGTATA GCGCCGGCT TCCTTCTAA 5400 5281 TACTAATCAA ACCAGACACA CCATAGTATAC GCCCTTGGAT CCCAACAGAGA CCCTTAGACAGCA CCATAGTAC GCCCTTGGAT CTCCAACAGAGA CCATAGTATAC GCCCTCC TGTTTACACAGGT TACTCTGAT TCCAACAGAGA CCATAGTAC GCCCTTGGAT CCCTTCTACA 5400 5240 AAACCACCTT ACCAGCACAC CTAAACACCTC CCCTTCTGAT CCCAACAGAGA CCATAGTAC GCCCTTGGAT CCCTTCTACACAGGT CTCAACAGAGA CCATAGTAC GCCCTCTGAT GCCCTCTAGAC GCCCTAGACCACCTT GCCTTCCTTAC TCCCTTCCTTAC TCCCTTCCTTAC TCCCTTCCTT	4761 TAGTGCACTA AAAGATATT TAGATSACT TCCTCAATTC CTTTCTACTG 119ATTTGAC 4880 4741 TAGTGCACCA AAAGATATTT TAGATSACT TTCTTCAATTC CTTTCTACTG 119ATTTGAC 4880 4880 1474TTCATTT GCTGCGCCCCCCCCCCCCCCCCCCCCCCCCCC	4741 TAGGACCAGA ATATTGATTG AGGGTTTGAT TOTATCATTC CTTTCTACTG TIGGAT 4880 4741 TAGGACCAGA AGAGGAGTTGAT ATACTGACCGC 4920 4861 AACTGACCAGA ATATTGATTG AGGGTTTGAT ATTTGAGGTT ATACTGACCGC 4920 4861 TITTTTCATTT GCTGTGGTGG CACTGAGGTTGA ATACTGACCGC 4920 4861 TITTTTCATTT GCTGTGGTGG CACTGAGGTTGA ATACTGACCAG 5040 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTCGTTGGTG ATTTTTATATT GGGATGTTT 4980 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTCGTTGGGT ATTTTTATATT GGGATGATTT AGAGGATGACCAG 5000 4981 AGGGCTATCA GTTCGCGGAT AGAGGACTAA TAGCCAGAATGA CACTTTCAGA CAATTCAGCAG 5160 5001 TATTCTTACG GTTGACCAGA AGAGGACTAA TAGCCAGCAATGA TAGCCAGAATGA TCCCTTTTAT 5100 5001 TATTCTTACG GTTGACCAG AGAGAGCTTCA TAGCCAGCAAA GGATGACCAG 5160 5001 TACTGGTGCG GTGATGTGTG AGACGACTTT TAGCTGCTGC GTAATATTTACT 5200 5161 TCAAAAATGTA GCTACTACA TGAGCCATTTTTTTTTT
4681 GTCTAATACT TCTAAATCCT COAAATGTATT ATCTATTGAC GGG-LUTAATG TTGACTTACC 4800 4741 TAGTGCACCA AAAGATATTT TAGATAAACCT TCCTCAAATTC CTTCTAATAC TAGATACCT 4920 4801 AAACTACTACT AATTGATTGA AGGGTTGAT ATTTGAGGT AGCAAAGGTG ATGCTTTAGA 4920 4801 AACTGACCAG ATTTGATTGA AGGGTTGAT ATTTGAGGT CACCATTGCA GGGGGGTTGA ATACTGACCGC 4920 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG CACCTGTTGCA ATTTTTAATTGG CGGATGTTTT 4980 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG TCCACCTGTTGCA AAAATTATTGT CTGTGGCACG 5000 4921 CCTCACCTCT GTTTTACGTT CAGAAAGGTT TATACTGCA ATTTTTAATTGT CTGTGGCACG 5000 5041 TATTCTTACG CTTTCAGGTA AGGAAGGATT TATACCACTTT GAGACGAATTATTT GAGACGAATGT TCCACCTCT GTTCAGGCAA TGAAAATAAT CCATTTCAGG GTAATATTGT 5200 5041 TATTCTTACG CTTTCAGGTG AATCTGCCAA TGAAAATAAT CCATTTCAGG GTAATATTGT 5280 5101 TACTGGTGT GTGACTGGTG AATCTGCCAAA TGAAAATAAT CCATTTCAGGCAA GTGAATATTGT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGATTT GAAATTGCA AGCACGACGACA GTGAATATTGT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGATTT GAAATTGCG GGGTACCGAT TCCTGTCTAAT 5400 5221 TCTGGATATT ACCAGCAAGG CCGATAGATTT GAAATTGCG GGGTACCGAT TCCTGTCTAAT 5400 5231 TACTGAATATAA AGAAGATTTG CTACAAAGGGT TCCACCTAAAGACGAGG AAAACACTTC 5840 5241 GGGTGGCCTC ACCTGATTATA AAAACACTTC TCAAGAAGGT TCCCCACCCC CACCACCC CCCCCCTCCTT 5840 5240 AATCCCTTTA ATCGGCCCTCC TGTTTAGCTC CCGCCCTTGAAT CACCAGGAGG AAAACACTTC 5840 5241 GGGTGGCCT TACCCCAAGCG GTGACCGCTA CACCTGACCC CACCACCCC CACCACCCC CACCACCCT CACCACCCC CACCACCCT TCCCCACCCC CACCACCCT CACCACCCC CACCACCTACCACCC CACCACCTTCACCACCCC CACCACCTACCACCCAC	4681 GTCTAATACT TCTAAATTT TCTAATGACT CONTRACT CONTRACT CONTRACTOR TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TAGATACT TAGATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT TCTAATACT CAGCAAGGTG ATACTGATCC 4920 4801 AACTCACCTC TCTTCAAGCT CAGCAAGGTG ATACTGACCC 4920 4921 CCTCACCTCT GTTTTAACT TCTGCTGGTG CACCTGTTGCA GACGGTGTTAATACTGACCAG 5000 4921 CCTCACCTCT GTTTTAACT TCTGCTGGTG TCTCAGGTG CACCTGTTGCA 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CTGTGGCACG 5000 5041 TATTCTTACG CTTTCAGGTA AGGAAGGATT TATACCACTTT GAGACGAATTATTT GAGACGAATGT TCCACCTCT GTTCAGGCAA TGAAAATAAT CCATTTCAGG GTAATATTGT 5200 5041 TATTCTTACG CTTTCAGGTG AATCTGCCAA TGAAAATAAT CCATTTCAGG GTAATATTGT 5280 5101 TACTGGTGT GTGACTGGTG AATCTGCCAAA TGAAAATAAT CCATTTCAGGCAA GTGAATATTGT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGATTT GAAATTGCA AGCACGACGACA GTGAATATTGT 5280 5221 TCTGGATATT ACCAGCAAGG CCGATAGATTT GAAATTGCG GGGTACCGAT TCCTGTCTAAT 5400 5221 TCTGGATATT ACCAGCAAGG CCGATAGATTT GAAATTGCG GGGTACCGAT TCCTGTCTAAT 5400 5231 TACTGAATATAA AGAAGATTTG CTACAAAGGGT TCCACCTAAAGACGAGG AAAACACTTC 5840 5241 GGGTGGCCTC ACCTGATTATA AAAACACTTC TCAAGAAGGT TCCCCACCCC CACCACCC CCCCCCTCCTT 5840 5240 AATCCCTTTA ATCGGCCCTCC TGTTTAGCTC CCGCCCTTGAAT CACCAGGAGG AAAACACTTC 5840 5241 GGGTGGCCT TACCCCAAGCG GTGACCGCTA CACCTGACCC CACCACCCC CACCACCCC CACCACCCT CACCACCCC CACCACCCT TCCCCACCCC CACCACCCT CACCACCCC CACCACCTACCACCC CACCACCTTCACCACCCC CACCACCTACCACCCAC	4681 GTCTAATACT TATAAATTCT 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CTTCTAATACT GCTGCTGGTT TAGATACCT TCCTCCAGCTGGT ATTTTTAATG GCGATGTTT ATACTGACCAC 4920 4921 CCTCACCTCT GTTTCCCGCAT TAAAGACTAA TAGCCAATCA AAAATATTGT TCGTGCCACG 5040 4921 CCTCACCTCT GTTCCCGCAT TAAAGACTAA TAGCCAATCA AAAATATTGT TCGTGCCACG 5040 4921 AACTCGTCTAATCTTCCGCACCA AAAAAAATATTGT TCGTGCCACG 5160 5041 TAATTTGACG CTTCAGGTGG AAACCTCAACACACACACACACACACACACACACACACA	4621 TITIAAAATI MATAACICCI CAAATETATI ATCTATTGAC GGULLAALE FIGATITEC 4800 4741 TAGTGACACCT AAAGATATITI TAGATAACCI TCCTCAATIC CATCICATIC GTGATTCAATACTTTAGA 4886 4801 AAACTGACCAG ATATTGATTA AGGITTGAT ATTTGAGGTT CAGCAAGGTG ATGCTTTAGA 4880 4801 AAACTGACCAG ATATTGATTA AGGITTGAT ATTTGAGGTT CAGCAAGGTG ATATTCATTAGAGTT CAGCAGGTGTTA ATATCTGACCG 4920 4801 AAACTGACCAG TTTTTATCTT CTGCTGGGTGG TTCCTTCTGGT ATTTTTATAG GGGATGTTA 4904 4921 CCTCACCTT GTTTTATCTT CTGCTGGGTGG TTCCTTCTGGT ATATTTTATAG GGGATGTTA 5500 4921 CCTCACCTT GTTTCACGGTAT TAAAGACTAA TAGCCATTCA AAAATATTTG TCGTGCCACG 5000 4921 ATATCTTACG CTTLAGGTC AGAAGGGTTC TATCTCTGTT GACCAGGAAG 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ATATTTAATTGATTAACTTAATTGATTGAAAAACAAAAAAAA	4921 CTATAATTCC GCTCCTTCTG GTGGTILCTI GGGCAAAGGA HTTATAAATT TATAATTCC GGGCAAAGGA HTTATAAACTT TCTAAAATCCT CAAATGTATT ACTATTGACTGC 4800 4741 TAGTGAATCCT CAAAATGTATT TAGATTACCTTCCTCAATCCTTTAATCCTTATACTTGCC 4800 4741 TAGTGAACCC 4861 TTATAACTT TCTAAAATCCT CAAAATGTATT ACTATTGAC GCCCTTAATCCTTTAACTGCC 4800 4741 TAGTGACCCC ATAATCCTT TAGATTACCTTT CCTCAAGTTC CTCTCAATCCTTCTTAATCCTTTACCCCCCCCCC	4951 TGATAAATT AAATAACATTIC GGGGAAAGGA UTTATGATGATTAACTTGT TAAATAACATTIC GGGGATTTAACATTAACTTGT CAGAAGGATTTAACATTAACTTGT CAGAAGGATTTAACATTAACTTGT CAGAAGGATTTAACATTAACTTGT CAGAAGGATTTAACATTAACTTAAC	1921 TGATAATTIC GCTCCTTCTG GIGGIILLI JULIANUGGA GTTBTICGAAT 16TTGTAAA 4980 4621 TTTTAAAATT TCTAAAATCCT CAAAATGTATI ATCTATTGAC GECTTAATC ATTACTTCT 4800 4741 TAGTGCACCT AAAGATATT TAGATAACT TCACAAATGTAT ATCTATTGAC TESATTIACC 4800 4741 TAGTGCACCT AAAGATATT TAGATAACT TCACCAATTC CTTCAATTC TTTAACT TATACTTATCA 4860 4861 ATCTACACCAC AAAAGATATT TAGATAACT TCACCAATTC CTTCAATTC ATTACTTAC 4860 4861 TTTTTCATTT GCTGCTGGCT CTCACCCTGG CACTGTTGCA GCGCGTGTTA ATACTGACCG 4920 4861 ATCTACACCTC TTTTATCTT CTCTGGTGG ATTTTTGCA ATTTTAAATTG CGGAGTTTTT 4980 4861 TTTTTCATTT GCTGCTGGCT CTCACCCTGG CACTGTTTCACA GCGCGAGATG TCCTCTCATTT 4980 4861 ATCTACACCTC TTTTAACTT CTCTCACCTGG ATTTTTAAATTTG CTGTGCCACG 5040 4861 TTTTCACTCA GTTCAGGCTA AAAAAACTC TCACCAATTC AAAAAAATTTTCAAACAAA	#361 HATAAATT AATAACSTIC GGGCAAAGGA HATAGAA GTTTTCCCA #300 H621 HTTTAAAATT AATAACSTIC GGGCAAAGGA HATAGAAGA HATAACSTIC GGGCAAAGGA HATAGAAGAT HATAACSTIC GGGCAAAGGA HATAGAAGAT HATAACSTIC GGGCAAAGGA HATAGAAGAT HATAACSTIC GGCCAAAGGA HATAGAAGAT HATAGAGAT HATAGATAACCT CCCCCAATTC CTAATACT TATTAGTGT AHAGAAGAT HATAGAGAT HACTAAGACAAG HATAGAATT HAGAGAAACCT TCCTCCAATTC CTAATACT HAGAGATHT HAGAGAAACCT TCCTCCAATTC CTAATACT HAGAGATHT HAGAGATHT HAGAGATHT HAGAGAACCT CCCCCAATTC CAAACAGGGT HATACTGACCA #920 H861 TTTTTCATTT GCTGCTGGCC CTAGGGGGG CACTGTTGCA GGGGGGGTGTT HATACTGAGCG \$900 H921 CACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	#2561 TGATAÄATTÄÄ GCTCCTTCTG GTGGGTILLI UTLAVAGGA GTTÖTCGÄÄT TGTTTGTAAA 4580 4621 TTTTAAAATT AATAACGTT CGAGCAAAGGA ATCTAATGAG GGTTCTAATG TATTAGTGTG 4800 4741 TAGTGCACCT AAAGATATTT TAGATAACCT TCCTCAATTC CTAATGAT TATTAGTGTG 4800 4741 TAGTGCACCT AAAGATATTT TAGATAACCT TCCTCAATTC CTAATGATG TGTGATTGCC 4800 4741 TAGTGCACCT AAAGATATTT TAGATTAACCT TCCTCAATTC CTAATGATG TGTGCTTTAGA 4920 4861 TTTTTCATTT GCTGCTGGCT CTCAGCGTGG CACTGTTGCA GGGGGTGTTA ATCGAGCGG 4920 4861 TTTTTCATTT GCTGCTGGCT CTCAGCGTGG CACTGTTGCA GGGGGTGTTAATG GGGATGTTT 4980 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG CACTGCTTCTGA GGGGGTGTTAATG TGTGCCACG 5000 4921 CCTCACCTCT GTTCAGCGT TAAAGACTAA TAGCCATTCA AAAATATTG TGTGCCACG 5000 4921 CCTCACCTCT GTTCAGCGT AAAGACTAA TAGCCAGTAAAAAAATATTG TGTGCCACG 5000 5041 TATTCTTAAGG TTTTCAGGTC AGAAGGGGTTC TATCTCTGTT AAAAATATTG TGTGCCACG 5160 5041 TATCTTTAAGG TATCAAGACTAA TGAACGATTA TCCAAGACGAA GGAAGAGA GCAAGAAGA CCCATTAGAGCGATT TAAAAATAAT CCAATTAGAG CAAAAGAG TCCATTAGAG CAAAAGAG TCCATTAGAGCGATT TAAAAATAAT CCAATTAGAG CAAAAGAG TCCAAGAGAG TAGACAGAGA GAAGAGAGAG AAACAAGAGA CACGAGAAGAA AGAAACATAT AAAAAAAATATTG CAACAAAGAG TCCATTAGAGACAAAGAG CCCATAAAAAAAAAA
4551 TÁATICCAAAC ANICAGGAII HIGH TOTT TOTT CÓCCÁA MATGATAATG IAALLAAMA 4680 4551 TOTTATAATICG COTCOTTCTE GGGCAAAAGAA 4561 TOTTATAATICA TATAATCCT CAAATGATAT ATTAATICGA GTGCTCAGAAT IGHTIAGATGA 4740 4651 GCTCTAATACT TATAATCCT CAAATGATAT ATCTATIGAC 4651 GCTCTAATACT TATAATCCT CAAATGATAT ATCTATIGAC 4651 GCTCTAAATCAT TATAATGATT AGGGCTTGATA ATCTATIGAC 4801 AACTGACACT AAAGATATTT TAGATAAACCT TCCTCAAATGT ATTTAATGATGA TATTGATGACT 4801 AACTGACACT AATTGATTCA AGGGCTTGATA ATTGAGAGGT ATTTGAGAGGAGGATATTTGACCA 4801 HITCATTT CATTTAATCATT AGGGCTTGATA ATTGAGAGGT ATTTGAGAGGAGGATACACACACACACACACACACACACA	4561 TAÁTCCAAAC ANICAGGAI HIGH TOTAT TOTATCCCCAA ATGATCAACA THALLAAM, 4680 4561 TATTATATICC GECTCTITCIG GGGCAAAGGA THALTACACAAT GATTITAAAACT 4661 GTTATAATTCA TATAATCCT CAAATGTATT HICKAATCACT 4661 GTTAAATCAT TATAATCCT CAAATGTATT HICKAATCACT 4701 TAGATCACT TATAATCCT CAAATGTATT HICKAATCACT CAAATGTATT HICKAATCACT TATAATTCACT CAAATGTATT HICKAATCACT TATAATCACT CAAATGTATT HICKAATCACT TATAATCACT CAAATGTATT HICKAATCACT TATAATCACT CAAATGTATT TATCATACACT TATAATCACT CAAATGTATT TATCATACACT CAAATGTATT TATAATCACT CAAATGTATT TATAATCACT CAAATGTATT TATAATCACT CAAATGTATT TATAATCACT CAAATGTATT TATAATCACT CAAATGTATT ATACACACCA 4920 4861 HITTAATCACT GAAAGGATT TAGAACACTAA TAGACCATTCAA 4861 HITTAATCACT GAAAGGATT TAGACACAAAAAAAAAAAACATAA TAGACATACAAAAAAAAAA	4551 TÁATICCAAAC ANICAGGAII HIGH TOTT TOTT CÓCCÁA MATGATAATG IAALLAAMA 4680 4551 TOTTATAATICG COTCOTTCTE GGGCAAAAGAA 4561 TOTTATAATICA TATAATCCT CAAATGATAT ATTAATICGA GTGCTCAGAAT IGHTIAGATGA 4740 4651 GCTCTAATACT TATAATCCT CAAATGATAT ATCTATIGAC 4651 GCTCTAATACT TATAATCCT CAAATGATAT ATCTATIGAC 4651 GCTCTAAATCAT TATAATGATT AGGGCTTGATA ATCTATIGAC 4801 AACTGACACT AAAGATATTT TAGATAAACCT TCCTCAAATGT ATTTAATGATGA TATTGATGACT 4801 AACTGACACT AATTGATTCA AGGGCTTGATA ATTGAGAGGT ATTTGAGAGGAGGATATTTGACCA 4801 HITCATTT CATTTAATCATT AGGGCTTGATA ATTGAGAGGT ATTTGAGAGGAGGATACACACACACACACACACACACACA	4561 TGATAATTCA AAC AAICAGGAII AIGHTUTCH TITTEGGAAA AAIGATAATT AATAACGTIC GGGCAAAAGAA HITAATAACGA GTTGTTCAGAT GTTTTGTAAA 4580 4561 TGATAAATTCA CTTAAATCCT CAAATGATTT TACTAATACT TATTAATTCA 4740 4681 TGATAATAACT CAAATGATTT TAGAATATTT TAGAATATTT TAGAATATTT TAGAATATTT TAGAATATTT TAGAATATTT TAGAATATTT TAGAATATTT TAGAATACTT	4561 TAATAATTCA GCTCCTTCT GGGGAAAGGA THAATTACGA GTTGTTGCGAAT GTTTGTTAAA 4680 4561 TAATAATTCA CATTAAATTCA CAAATGATT TATAATTCA CAAATGATT TATAATACT CAAATGATT TATAATTCA TATAAATCA CAAATGATT TATAATTCA TATAAATCA CAAATGATT TATAATTCA TATAAATCA CAAATGATT TATAATTCA TATAAATCA CAAATGATT TATAATTCA TATAAATCA TATAAATCA CAAATGATT TACTAATTCA TATAAATCA CAAATGATT TATAATTCA TATAAATCA CAAATGATT TATAATTCA TATAAATCA CAAATGATT TATAAATACA TATTGAGGAT CAGAGGATGATA ATGATTGAAATCA CAAAATAATT TATAATTGAC CTTCAAAGGAT TATTGAGGATTCAA AAAATAATGA TATTGAGGATTCAA AAAATAATGA TATAAGGATGATTA ATGAGGATGATTA ATGAGGATGATTA ATGAGGATGATTA ATGAGGATGATTA ATGAGGATGATTA ATGAGGATGATTAA ATGACGAGAAGGATGATAA AAAATAATGA TATAAGGATGATTAAA TATAAGAAAAAAATAATGA CAATGAGCAGAAGA TATAACGAAAGAAGAAAAAAAAAA	4561 TAATACTAAAC AAICAGGAIL AIRIUTTUT GETTÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ	4561 TAATAATTA AATAACGTTC GGGCAAAGGA TITAATACGA GTTGTTGCGAAT GTTTGTAAAA 17460 4561 TAATAATTCA CATCAACGTTC GGGCAAAGGA TITAATACGA GTTGTTGCGAAT GTTTGTAAAA 17460 4681 TITTAAAATT AATAACGTTC GGGCAAAGGA TITAATACGA GTTGTTAACGAT TATTGTTTGCT 4800 4681 TITTAAAATT AATAACGTTC CAAATGATTA TATTATTTGC GGCTTTAATTC TAATACTTTGCT 4800 4801 TATTAATACT TCTAAATACT CAAATGATTAT TACAATTGC TTTAACGAT GTTGAATGAT TAAGTGATCA 4860 4801 TATTCAATTG TTGAATACT TAAGGATTATT TAGAGTAATTT TAGATTACT TAGATTGCT 4800 4801 TATTCAATTG GGCTTGCC CAAATGATATT TAGAGTATGAT TATTGAGGTT CAGCAAGGTTA ATACTGACCG 4801 AACTGACCAGA ATATTGATTTA GGGGTTGATA ATTTGAGGTT CAGCAAGGTTA ATACTGACCG 4801 TATTCATTTACTT TAGAGATCAT TAGAGCATGCAT GACCAAGGTTAA ATACTGACCG 4920 CCTCACCCTCT GTTTTACTTT CTGCTGGTGG TACACTTCA AAAATAATTG CTGTGGCAG 5040 4921 AGGGCTATCA GTTCAGGCAG AAACGACAAG TAGACTTCAGAGAAGT CCACTTTATACT S100 4921 TATTCATTACG CTTCAGGTCA AAACAGACTAC TAGACCAACTTCA AAAATAATTG CTGTGGCAG CGAAATATTGT 5100 5041 TATTCATTCAG CTTCAGGTCA AAACAGCATCT TAGACGAAGA CGAAATATTGT 5280 5101 TACTGTGTGA GGAATGTTCCA TGAACGCATTTCA AAAAAAATATTTCATTTACT 5340 5221 TCTGGAATATT ACCAGCAAGG CCGAATATTTCA AATTGCCATTCAGAGAAGA GTGAATATTGT 5280 5221 TCTGGAATATT ACCAGCAAGG CCGAATATTT CAGAACAGAT TCCAACAGGAAG GTGAATATTGT 5280 5281 TACTAATCAA AGAAGATTTG CTACAACAGGT TAATTTCAGT ACCAACAGGAAG GTGAATATTGT 5460 5341 CAGAGAAGAT ACCACTTAATA AAAACACTT CTAAAATAAT CCACACAGAGAG AAAAAACACTT 5460 5341 CAGAGAATAT ACCAGCAAGG CTGAAAAGACAC CCCTGTAGA CCCCCCATACAC CCCCCATACAC CCCCCTTAAA 5400 5221 GTGGGGTGT AACAGCAACG CCCAAAAAAACACTT CAAAAAAACACTT CTAAAACACAC CCCCCTAGAC CCCCCAACAAAAAACACT CCCTAAAACACAC CCCCTAGACCACT AAACACACCT CCCTAAACACAC CCCCCTAGACCACT AAACACACCACTAAAACACAC CCCCTAGACACACACACACACACACACACACACACACACA	4561 TATATATTA GETCENTER GEGGAAAGGA TITAATACGA GTTGTTCGAAT GETTTGTAAA 47680 4561 TATAAATTCA CATAAATCCA CAAAAGGATT TATAATTCA GEGCTCTTCTC GAGGAAAGGA TITAATACGA GTTGTTCGAAT GETTTGTAATACCT CAAAAGGATT ATTTAATTCACT GTTGAATTCCT CAAAAGGATTA TATCATTTCCAAATCCT CAAAAGGATTA TATCATTTCACT TTGAATTCCT CAAAAGGATTA ATTTAACTTTCCAAATCCT CAAAAGGATTA ATTTAACTTTCACT TACAATCCC CAAAAGGATTA ATTTAACTTTCACT GAGGATGATTA ATTTAACTTTCACAATCCC CAAAAGGATTA ATTTAACTTTCACT TACAATCCC CAAAAGGATTA ATTTAACTTTCACT TACAATCCC CAAAAGGATTA ATTTAACGAGTTCAAAGGATTAACTA ATTTAACTTCACT TACAATCCCC AAAAGATAATTT AAGAACACT TCCTCAATTCCA AAAAATATTGT AAGAAGTAATTT AAGAACACT TCCTCAATTCCA AAAAATATTGT CTGTGCCACG 5040 4981 AACTGACCAGA ATTTCCATTCTT CTGCTGGTGGT TTCCATCAGGTT AAAAAATATTGT CTGTGCCACG 5040 4981 AAGGGCTATCA GTTTCAGGCAT ATAAAGACTAA TAGCCAATCCAA AAAATATTGT CTGTGCCACG 5040 4981 AAGGGCTATCA GTTTCAGGCAT AAAAAGACTAA TAGCCAATCCAAAAAAAATATTGT 5280 5041 TACTGGTGCAT GTACAAGGAT AAAAAAAAAAAAAAAA
4941 TGTTTTAQL BLACAGATT ATATTGATGA ATTGCCATCA ICLIGATIANE BY ACT CANAC 4551 TGATTATTCC GCTCCTTCTG GGGCAATGATT TGTTCGCAGA ATGATATTCC GCTCCTTCTG GGGCAAAGGA TTTATATACGA GTTCTCGAAT GTTTGATGAT 4740 4761 TTATATACATT ATATACATT GTTTGAAATT ATATACATT GTTTGAATT ATATACATT GTTTAAATT ATATACATT GTTTAAATT ATATACATT GTTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAACATT GTTTAAATC TTTAAAATT ATATACATT GGGCTTTAAAACATT TAAAACATTA GGGCTTTAAAACATT GGGCACCT ATATGATT GGGATTTAAACATT GGGCACCA 48800 4741 TAGATTACATT GGGCACCA 48800 4741 TAGATTACATT GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTCAA ATATGAATTA GGCAGTTTAA TACTGACCAG GCCCCCCCCCC	4941 TGTTTTAAGU SULAMAGATT ATATTGATĞA ATTGCCATCA ICLGALARIE UNCATCARAC 4520 4561 TGATAATTCC GCTCCTTC16 GIGGTTTCTT TGTTCCGCAGA ATGATATA TGTTCARAC 4620 4561 TGATAATTCC GCTCCTTC16 GIGGTTTCTT TGTTCCGCAGA ATGATACT GATTGATAC 4740 4621 TTTTAAAATT ATAACGTT CAAATGTT TGTTCCGCAGA ATGATACT GATTGATT 4740 4761 TAGTTTAAAATT ATAACGTT CAAATGTATT ATCATTGAG GGCTCTAATAC TGTTTGAGTT 4740 4761 TAGTGCCAGC ATATTGATT AGAGTAACT TCCTCAAATG CATTTCAATT TGTTTAGATT ATCATTGAGT 4860 4761 TAGTGCCAGC ATATTGATT AGAGTAACT TCCTCAAATG CACTTTAGAGT TGCTTTAGAGT 4860 4761 TAGTGCCAGG ATATTGATT AGAGTACAT TGCTTTGAGTT CACCAAGGT ATACTGACCG 4860 4861 TTTTCATT GTTTTACTT CTGCTGGTGG TTCCTCAGTTGCA GGCCGTGTTA ATACTGACCG 5040 4861 ACCACCTC GTTTTACTT CTGCTGGTGG TTCCTCTGTTGCA ATACTGACGG CACTTTAGA GGCCAGAATG CCACTTTAGA GCCAGTTTA TGCCACC 5040 4981 AGGGCTATCA GTTCAGCCGT TAAACACCTAA TAGCCATTCA AAAATATTG CCAGTTTCAGC GGCCAGAATG CCACTTTCAGCGTG TTGACTGGTG AAACTGCCAAA GTGAATATGAT CCAATTCAGAC GGATTTACCA GCCAGTTTTACA TGCCACTTC AAAATATAA TCCTAGCCACC TAAACCAA GCCAATGAATTTACAA CAAAATGTA GCCAATTCAAACGT TAAATCAAA CAAAATGTA GAAATGTACAA AAAAATGTA GCCAATTCAAACGT TAAATCAAA CAAAAGAATGTA GCCAATTCAAACGT TAAATCAAA CAAAAGAATGTA GCCAATTCAAACGT TAAATCAAA CAAAAGAATGTA GCCAATTCAAACGT TAAATCAAA CAAAGAATGTA GCCAATTCAAACGT TAAATCAAA CAAAGAATGTA GCCAATTCAAACGT TAAATCAAA CAAAGAATGTA GCCAATCAAACGT TAAATCAAA CAAAAGAAACATTC TAAAAACATTA GAACAACATC TAAAACAACAACAACAACAACAACAACAACAACAACAACA	4941 TGTTTTAQL BLACAGATT ATATTGATGA ATTGCCATCA ICLIGATIANE BY ACT CANAC 4551 TGATTATTCC GCTCCTTCTG GGGCAATGATT TGTTCGCAGA ATGATATTCC GCTCCTTCTG GGGCAAAGGA TTTATATACGA GTTCTCGAAT GTTTGATGAT 4740 4761 TTATATACATT ATATACATT GTTTGAAATT ATATACATT GTTTGAATT ATATACATT GTTTAAATT ATATACATT GTTTAAATT ATATACATT GTTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAATC TTTTAAATT ATATACATT GGGCTTTAAACATT GTTTAAATC TTTAAAATT ATATACATT GGGCTTTAAAACATT TAAAACATTA GGGCTTTAAAACATT GGGCACCT ATATGATT GGGATTTAAACATT GGGCACCA 48800 4741 TAGATTACATT GGGCACCA 48800 4741 TAGATTACATT GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTAAACATTA GGGATTTCAA ATATGAATTA GGCAGTTTAA TACTGACCAG GCCCCCCCCCC	4941 IGHTHIAGAI BLIANGACHT ATATTGATGA ATTGCCATCA ILLIGALIANAL BURGATCANAC GEZO 4551 IGATAATICC GCTCCTICIG GTGGGTTLTI TIGTICGCAAA ATGGATAATAC GTC 4400 4621 HTTTAAAATT AAAATTAAACGTIC GGGCAAAGGA ATGGATAATAC GTT 4400 4621 HTTTAAAATT AAAATTAAACGTIC GGGCAAAGGA ATGGATAACC GTTTAAAATTAAACGTIC GAGATAACGTIC 4800 4741 TAGGTACACA AAAAAATATTCAATTAAACGTIC GAGATAACGTIC 4800 4741 TAGGTACACA AAAAAATATTCAATTAAACGTIC 4800 4741 TAGGTACACACACACACACACACACACACACACACACACA	4941 TGTTTTAAGAT ATATTGATĞA ATTGCATCA (1164) ATATTGATĞA ATTGCATCA (1164) ATATTCAAAC (1620) 4561 TGATAATTCC GCTCCTTCTG GTGGTTGTTT TGTTCGCGAA ATGATAATG TTTTGAAAT (1680) 4680 4621 TTTTTAAAATT AATAAGATT GGGGCAAAGGA TTTTAATACGA GTTGTCGAAT TGTTTGTAAAA (1680) 4621 TTTTAAAATT AATAAGATT TGAAAGGATTT TAAATACGAT GGGCAAAGGA TGTTTTAAAATCA (1680) 4741 TAATTAAAATT AAAAGAATTTT TAAAAATCA TTTAAAAACCT TCAAAAGGATTTT TAAAAAGAATTTT TAAAAAGAATTTT TAAAAAACAAACCT TCACAAAGGTA ATACTGACGA 4920 4861 TTTTTTAAAATT AAAAGAATTTT TAAAAAACAATTT CACCAAAGATTTT AAAAGAATATTT AAAAAAACAATTT CACCAACAAGAAGAATATTAAAAGAATATTAA TAACAACAATTA TAACAACAATTA TAACAAAAAAAA	49501 TAATICCAAAC GETCETTCTG GTGGTTTTTTTTTTTTCGCGAA AATGATAAATG TETTGATAAAC 4620 49501 TGATAATTCC GCTCCTTCTG GTGGTTTTTT TGTTTCGCGAA AATGATAAATG TGTTGAAAAC 4680 4621 TTTTAAAAAT AATAACGTT CGGGCAAAAGGA TTTTTAAAACT TGTTAGAAA 6480 4621 TTTTAAAAAT TAAAGATTT TAGATAAACT TTTAAAAACT AATTAGATTG TAGATTAAACT AATTAGATTG TAGATTAAACT TAGATTAAACT TCTAAAATGAT TAGATTAAACT TAGATTAAACT TCTAAAATGATT TAGATAAACT TCTCAAATGATT AAGAGATATT TAGATAAACT TCTCAAATGATT AAGAGATATTAAAACT TAGATTAAACT TCTCAAATGATT AAGAGATATTAAAACT TAGATTAAACCT TCTCAAATGAC CGTCTAAACT AAAAGATATTT TAGATAAACCT TCTCAAATGAC CGTCTAAACTAAA	49501 TATATCANAC GCTCCTTCTG GTGGTTGTTTTTTTTTCGCGAN ANTACANAC HAGAS	49501 TAATICCARAC GCTCCTTCTG GTGGTTGTTT TGTTICGGCAA AATGATAATG TGTTTGAAAC 4620 49501 TAATACAGTC GCTCCTTCTG GTGGTTTTT TGTTICGGCAA ATGATAATG TGTTTGAAAAC 4620 49501 TAATAAAACT TCTAAAATCAT GGGCAAAAGATTTTTAAAACT 4740 40621 TTTTAAAAATT AATAACGTTC CAAAATGATT TTTAATACGC GGCTCTAATC TATTAGTTGT 4740 40631 GTCTAATACCT TCTAAAATCCT CAAAATGATT TAGATTGAC CGCTCTAATC TATTAGTTGT 4740 40631 GTCTAATACCT TCTAAAATCCT CAAAATGATT TAGATTGAC CGCTCTAATC TATTAGTTGT 4740 40631 GTCTAATACCT TCTAAAATCCT CAAAAGTATTT TAGATTGAC CGCTCTAACTCT TTAAAAGATTTT TAGATTAAACCT TCTCAAATCCT CTTCTACTG TGAATTTAGAC 4920 40631 TTATTAAAACTT TAGATAAACCT TCTCAAAATCTT CAGCAAGGTG ATACCTTACACAG 4920 40631 TTATTCATTT GCTGCTGGCT CTCAGCGTGG CACTGTTGAA TGACCAAGGTG ATACCTACACC 4920 40631 AGGGCTATCA GTTCAGGCGTG CTCAGCGTGG CACTGTTGAA TGACCAAGATTT GAAAAATGATA GGCCAAGAATGT TAAAAAAAAAA
4491 IACHTYACCT SCTAATAATT TIGATATGG   1991/LAATA   140 TATATTATATGA   140 TATATGATATA ATTATGATATA   141 TATATGATATA     141 TATATGATATA   141 TATATGATATA   141 TATATGATATA   141 TATATGATATA   141 TATATGATATATATATA   141 TATATGATATATATA   141 TATATGATATATATATATA   141 TATATGATATATATATATATATATATATATA   141 TATATGATATATATATATATATATATATATATATATATA	4491 IACHTYACCT GCTATTAATT TIGATATIGG   1991-1CAPITA   4501 IAATTCAAAC AMTCAGAATT ATATTGATGA ATTOCCAAA   4501 IAATTCAAAC AMTCAGAATT ATATTGATGA ATTOCCACAA   4621 THTTAAAATT   AATACGTC GGGCAAAGAATTTAATTCAAAC GTTGTGCAATT TACTCAAAC   4621 THTTAAAATT   AATACGTC GGGCAAAGAATTAATTCATTGAC GGCTCTTAATCATTCAAACATT   4621 THTTAAAATT   AATACGTC CAAAGATTAT ATCTATTGAC GGCTCTAATCATTTACCAAACA   4621 THTTAAAATT   AATACGTC CAAAGATTAT ATCTATTGAC GGCTCTAATCATTTACAAACATT   4801 AACTGACCAA AATATTGATTCA   4801 AACTGACCAA AATATTGATTCA   4801 AACTGACCAA AATATTGATTCAAATTCAT   4801 AACTGACCAA AATATTGATTCAAATTCAT   4801 AACTGACCAA AATATTGATTCAAATTCAT   4801 ACTCCACCCT   4801 THTTTCATTT GCTGCTGGCT   4801 TTTTTCATTT GCTGCTGGCT   4801 TTTTTCATTT GCTGCTGGCT   4801 TTTTTCATTT   4801 ACTGACCAACAAACAACAACAACAACAACAACAACAACAACAA	4491 IACHTYACCT SCTAATAATT TIGATATGG   1991/LAATA   140 TATATTATATGA   140 TATATGATATA ATTATGATATA   141 TATATGATATA     141 TATATGATATA   141 TATATGATATA   141 TATATGATATA   141 TATATGATATA   141 TATATGATATATATATA   141 TATATGATATATATA   141 TATATGATATATATATATA   141 TATATGATATATATATATATATATATATATA   141 TATATGATATATATATATATATATATATATATATATATA	4391 INTITICACE COTANTANTI TIGATATIGGI INDIVERSITA ATTOCATA ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATAC ATTOCATACA ATTOCATACA ATTOCATACA ATTOCATACA ATTOCATACATIC ATTOCATACATIC ATTOCATACATIC ATTOCATACATIC ATTOCATACATIC ATTOCATACATIC ATTOCATACATIC ATTOCATACATIC ANALOGITIC AGAINGT ATTOCATACATIC ATT	4341 IGHTHACET SCTAATAATT TIGATAIGG BY SUPERIOR STATEMENT OF STATEMENT STATEMENT AND STATEMENT STATEMENT AND STATEMENT STATEME	4381 IACTIVITACET SCTAATAATT TIGATAIGG   1991.CARICA   TYTGATAATC   AGGAATATGA 4950   4501 TAATCAAAC AATCAGAAT TAATTGAACA ATTGCCAACA   ATTGATAATC   AGCACACACACACACACACACACACACACACACACACAC	4341 IACTITICĂCĂ CĂTĂTĂATI TIGATAIGG   1901.CATCA   CTIGATAATC AGGAATATAA 4500   4501 TAATCAAAC AATCAGGATI TATATGATA ATTOCAACA   CTICCATCA   CTIGATAATC   4620 TATATAAT CAAAAC AATCAGGATI TATATGATA ATTOCAAAC   4621 TITTAAAATT AATAACTIC GGGCAAAGGA TITAATATGA CAATTCC TATATCATT   4740	4341 IACTITIACET COTATATATT TTGATATGG   1991.LCATCA   TYTGATAATC   AGGAATATGA 4590   4501 TAATCAAAC AATCAGGATT ATATTGATGA ATTGCCACA   ATGATAATC   AGGAATATCA   AGAC   4620   4621 TTTTAAAATT   AATAAGGTTC GGGGAAAAGGA   TTTAATAAGGA   TTTCCGAAT   TTTTAAAATT   AATAAGGTTC GGGGAAAAGGA   TTTAATAAGGA   TTTCCAAATCC   TATTTAACTCAAAC   4620   4621 TTTTAAAATT   AATAAGGTTC GAAAAGGAAAGGA   TTTAATAAGGA   TTTCCAAATCC   TAATTCCATTAACCC   4800   4621 TTTTAATAATT   AATAAGGTTC   TAATTCATTAACGA   4860   4741 TAGTGCAACCT   AAAGAATATTT   TAGAATAACT   TCTCTAAGTCC   TAATTCATTAACCC   4890   4801   AACTGACCGA   AAAGAATATTT   TAGAATAGAT   TTTTGAGGTTC   CAGCAAAGGTG   ATCTGATCACCCA   AAAGAATATTT   TCTCTGAGGTGC   ACTTGAGGTGTAATATTCATTCACT   TGTTGAGGTGC   ACTTGAGGTGTA   AAACTGACCCC   4800   4801   AACTGACCCC   AAAGAATATTT   TCTCTGAGGTGC   ACTTGAGGTGTAATATTT   TGTTGAGGTGC   ACTTGAGGATGAACACCCCCCCC   AAAAATATTTATTG   CTGCTGAGCC   AAAATATTATTG   CTGCTGAGCC   CTGCACCCCC   AAAAATATTTCACCCCCCCCCCCCCCCCCC
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FIG. 7-2

FIG. 8-1

TCCGGTGTTT ATTCTTATTT AACGCCTTATA ATATTTGA ATTATTTGA ATATTTTGA ATATTTTGA ACATTTAGGTC AGAAGATGAAA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA ACATTTTGATA AGAAATGAAAT	CCCCGGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

FIG. 8-2

FIG. 9-1 SUBSTITUTE SHEET

FIG. 9-2

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FIG. 10-1

## INTERNATIONAL SEARCH REPORT

International Application No. PCT/US91/07141

I. CLASSIFICATION OF BUDJECT MATTER (if several classification symbols apply, indicate all) 6					
		La Chara Cantina (IRC) as to both No	monal Classification and IPC		
IPC(	5): C12 CL.: 4	N 1/24, 15/00; CO7H 21/00 35/252.33, 320.1, 172.3;	536/27		
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		Documentation Searched other to the Extent that such Documents	nan Minimum Documentation are included in the Fields Sourched 8		
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III. DOCL	O BYRBE	DUBINED TO BE RELEVANT :		I Salara Sian No. 13	
Calegory °	Citatio	on of Document, 11 with indication, where appr	opriate, of the relevant Basbages 12	Relevant to Claim No. 13	
Y	1	A. 0.383,620 (Cook) 2 entire document.	2 August 1990.	1-87	
J.		A. $4.458.066$ (Caruthe: $alv=1984$ ) see entire (		1-87	
Y	US. :	A. 4.771.000 (Verrips eptember 1988. see ent	et al.) tire document.	8.9.24-26 32-34. 55-57. 64-66. 73-75. 81-87	
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	onal Soarchin		Signature of Juthorized Officer		
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	ENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SEC. ND SHEE	Relevant to Claim No
	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No
ategory *	GENE. Volume 44. issued 1986. A.R. Oliphant. "Cloning of randon-sequence oligodeoxynucleotides". pages 177-183. see entire document.	1-87
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